

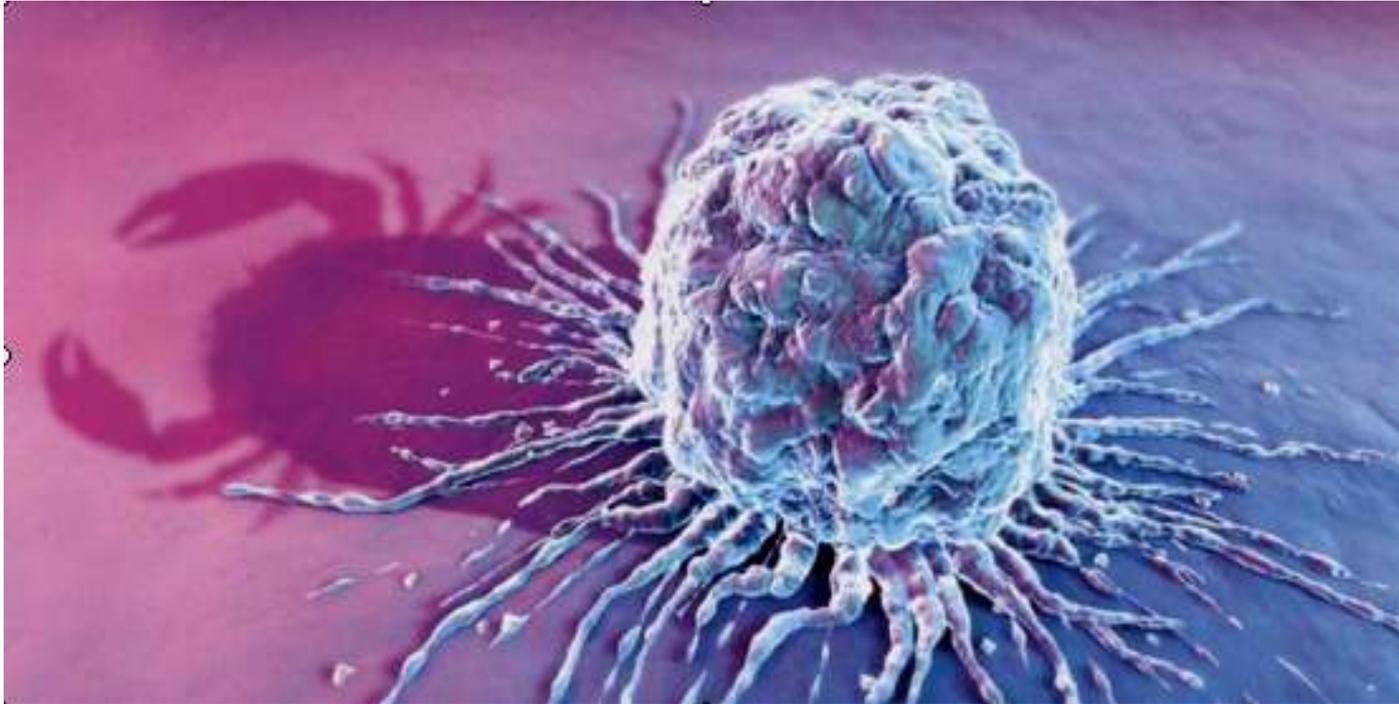


Sociedade Brasileira de Histotecnologia

CÂNCER: MICROSCOPIA ELETRÔNICA COMO FERRAMENTA DE PESQUISA

Rosana Silistino

CANCE R



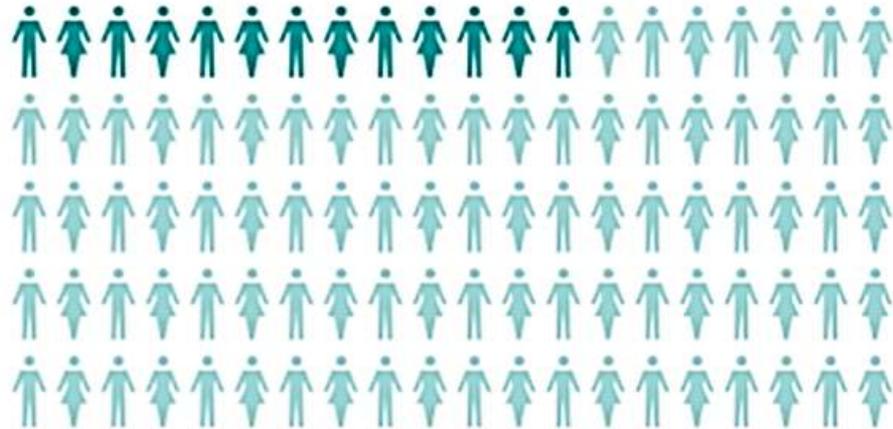
ESTATÍSTICAS - 2016

14,1 milhões
de novos casos a cada
ano no mundo todo



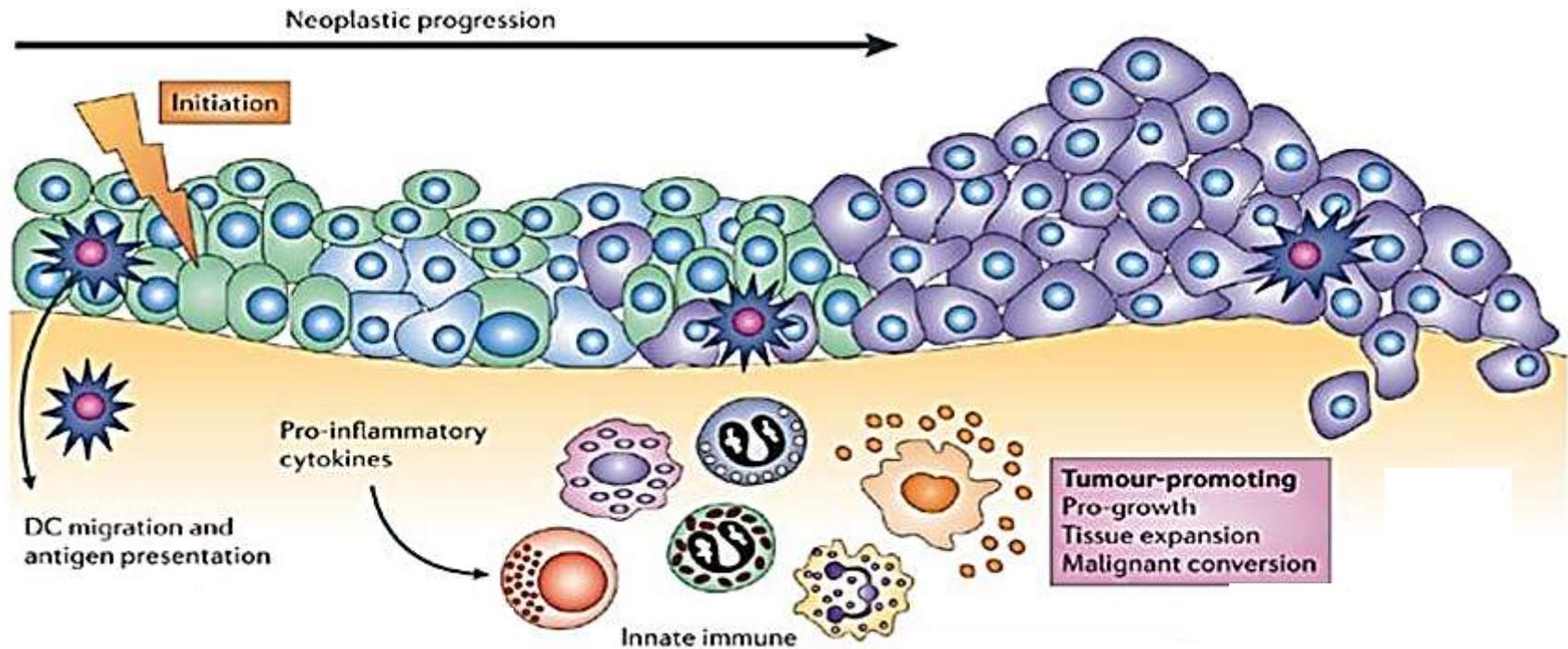
Fonte: Globocan

8,2 milhões
de pessoas morrem de câncer a cada ano



uma estimativa de 13% de todas
as mortes no mundo todo

MICROAMBIENTE TUMORAL



Int. J. Cancer: 120, 2582–2589 (2007)

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Annexin 1: differential expression in tumor and mast cells in human larynx cancer

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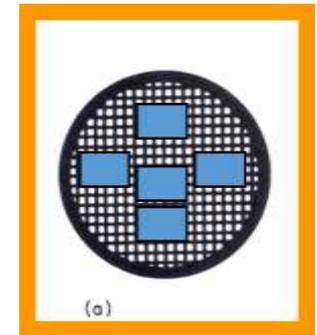
⁵*Department of Otorhinolaryngology, Faculty of Medicine, São José do Rio Preto, São Paulo, Brazil*

⁶*Department of Anatomy and Genetics, University of Oxford, Oxford, UK*

TÉCNICA DE MICROSCOPIA ELETRÔNICA DE TRANSMISSÃO

Preparo do Material Biológico

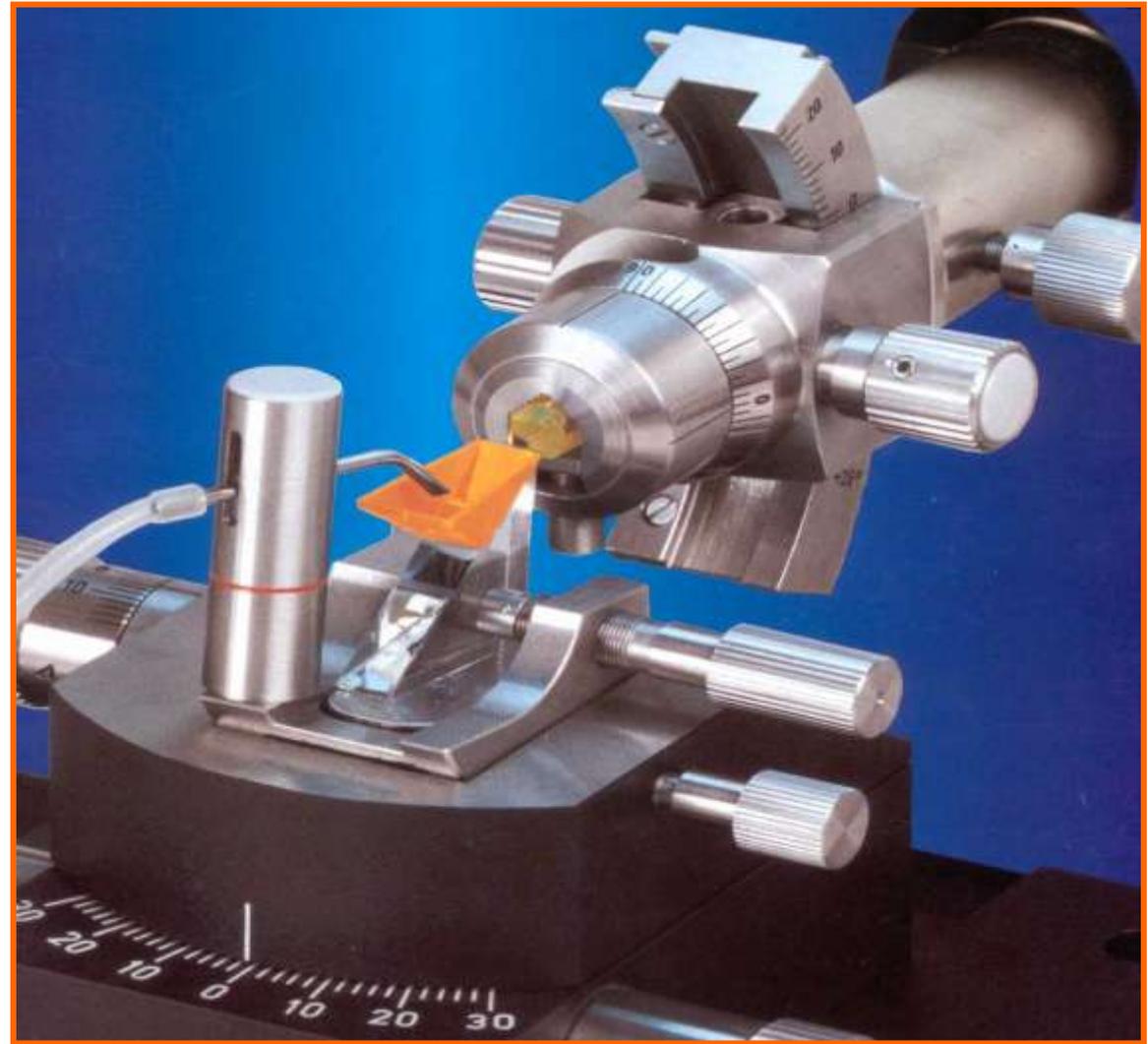
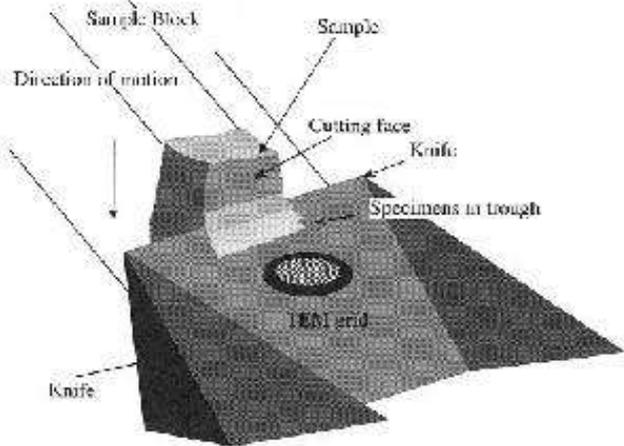
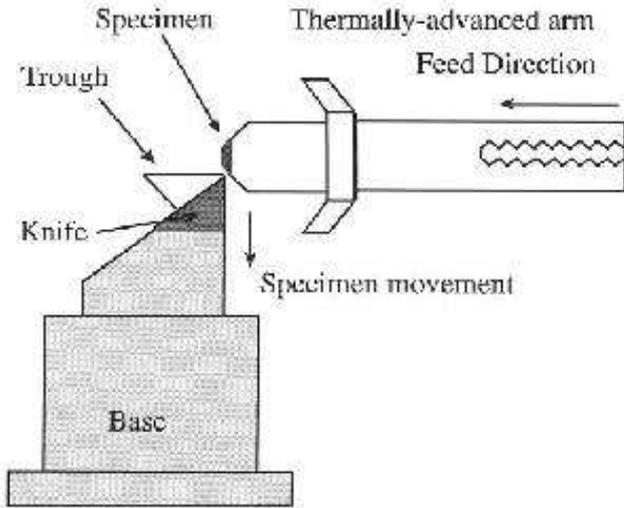
- **Fixação**
- **Desidratação**
- **Inclusão**
- **Ultramicrotomia**

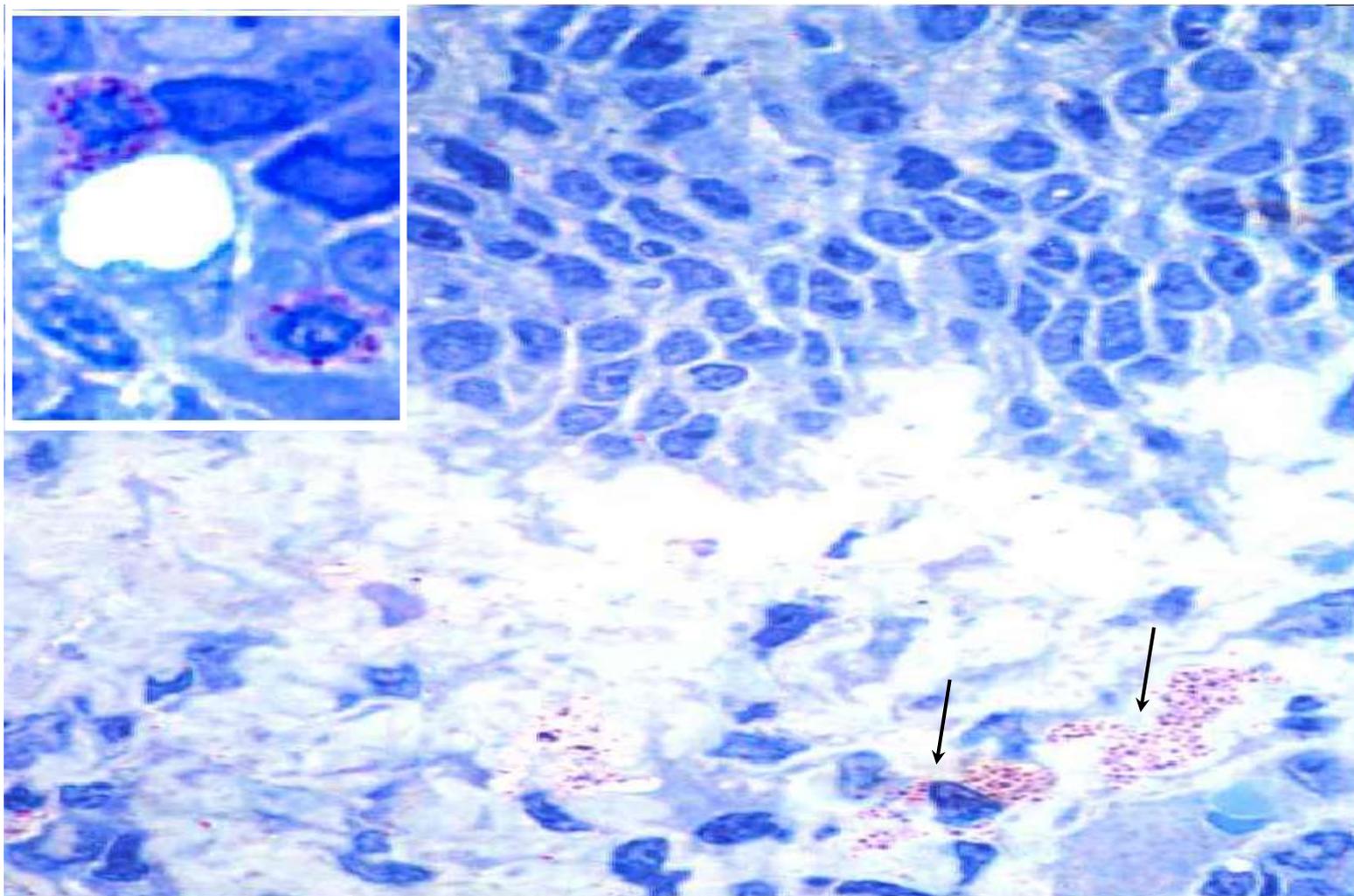


ULTRAMICROTOMI A



ULTRAMICROTOMIA



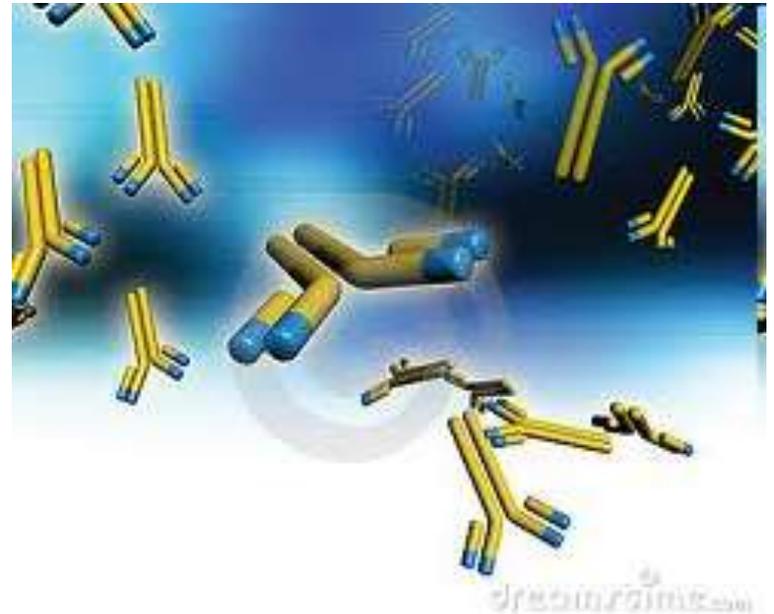


Tecido Tumoral

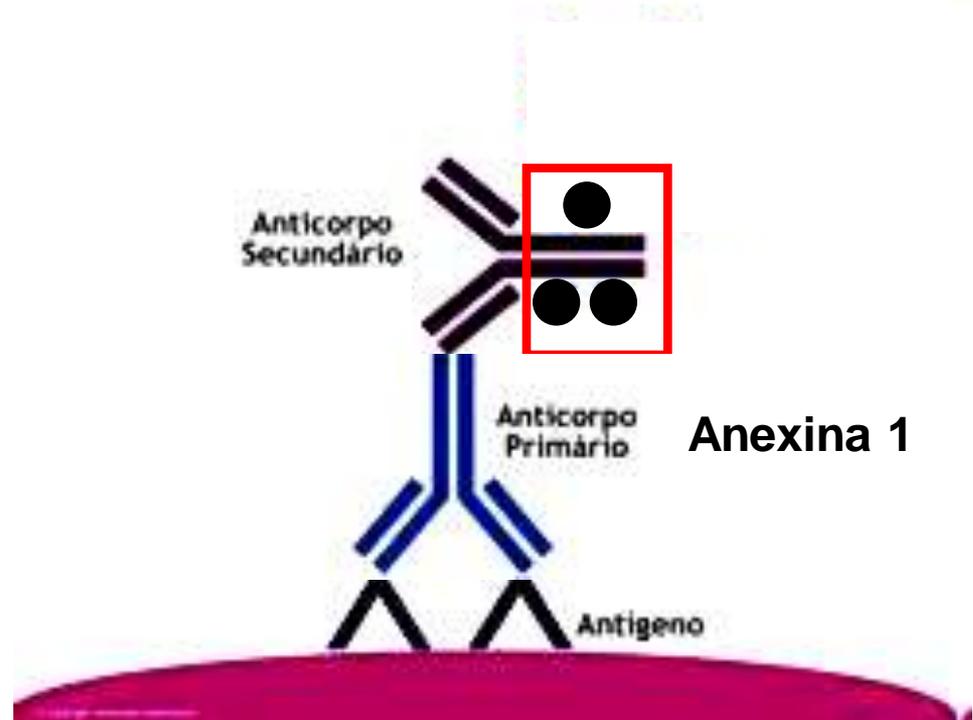
IMUNOCITOQUÍMICA ULTRAESTRUTURAL

Método de detecção intracelular de proteínas por reação antígeno-anticorpo

Detecção: ouro-coloidal - MET



Reação de Imunocitoquímica



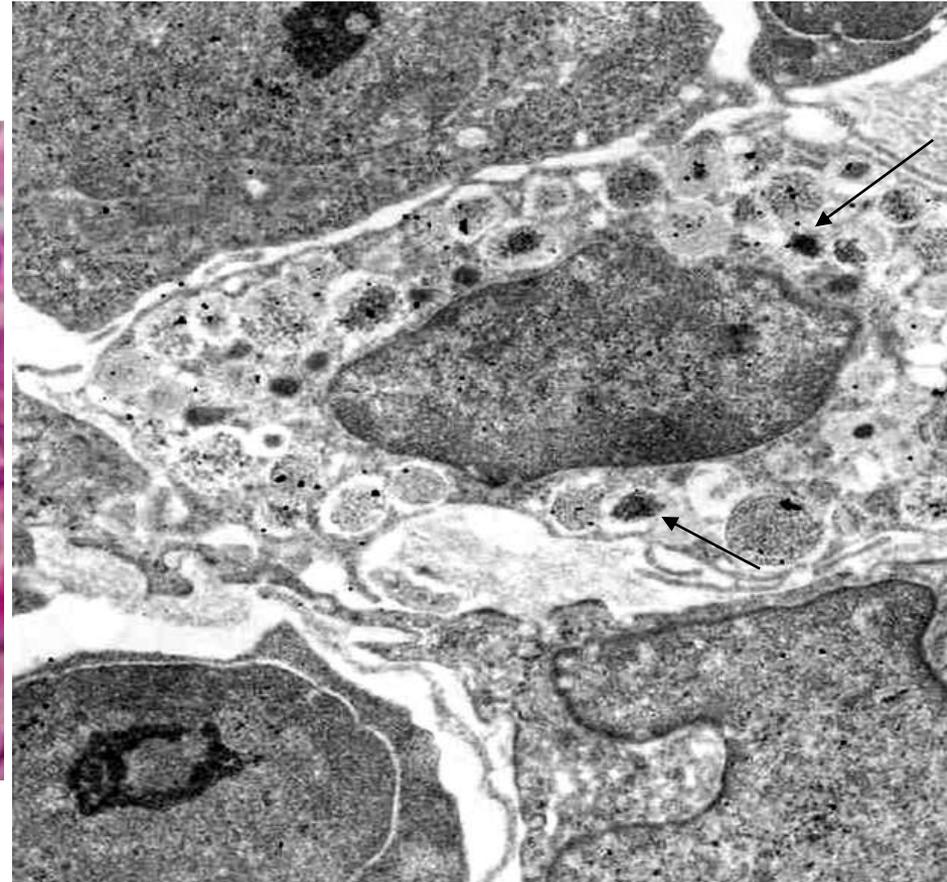
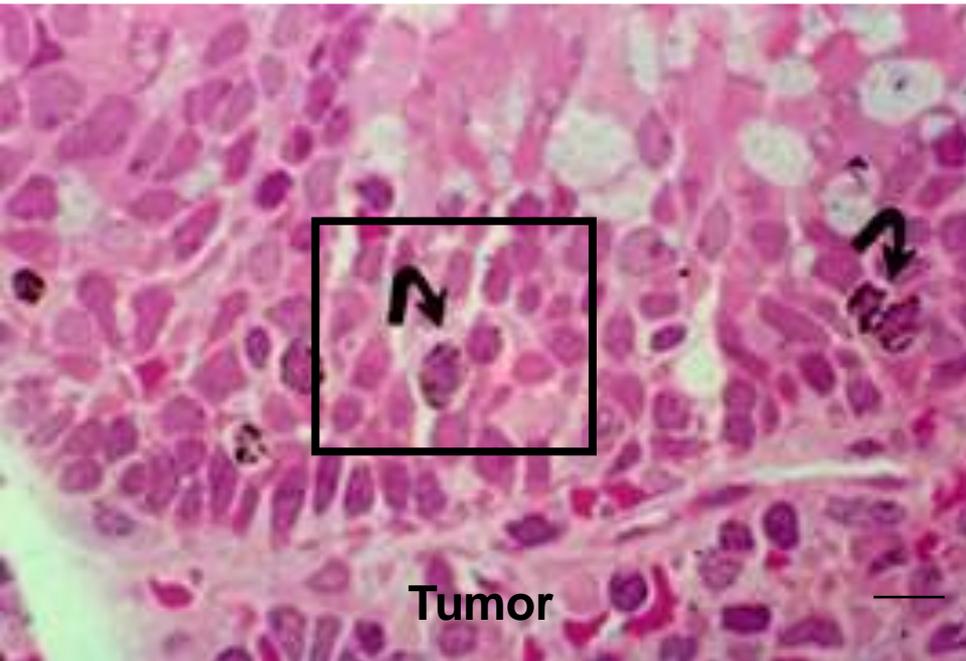
Imunocitoquímica: baseia-se na especificidade dos anticorpos, na localização de moléculas ou de regiões de moléculas nos tecidos e células.

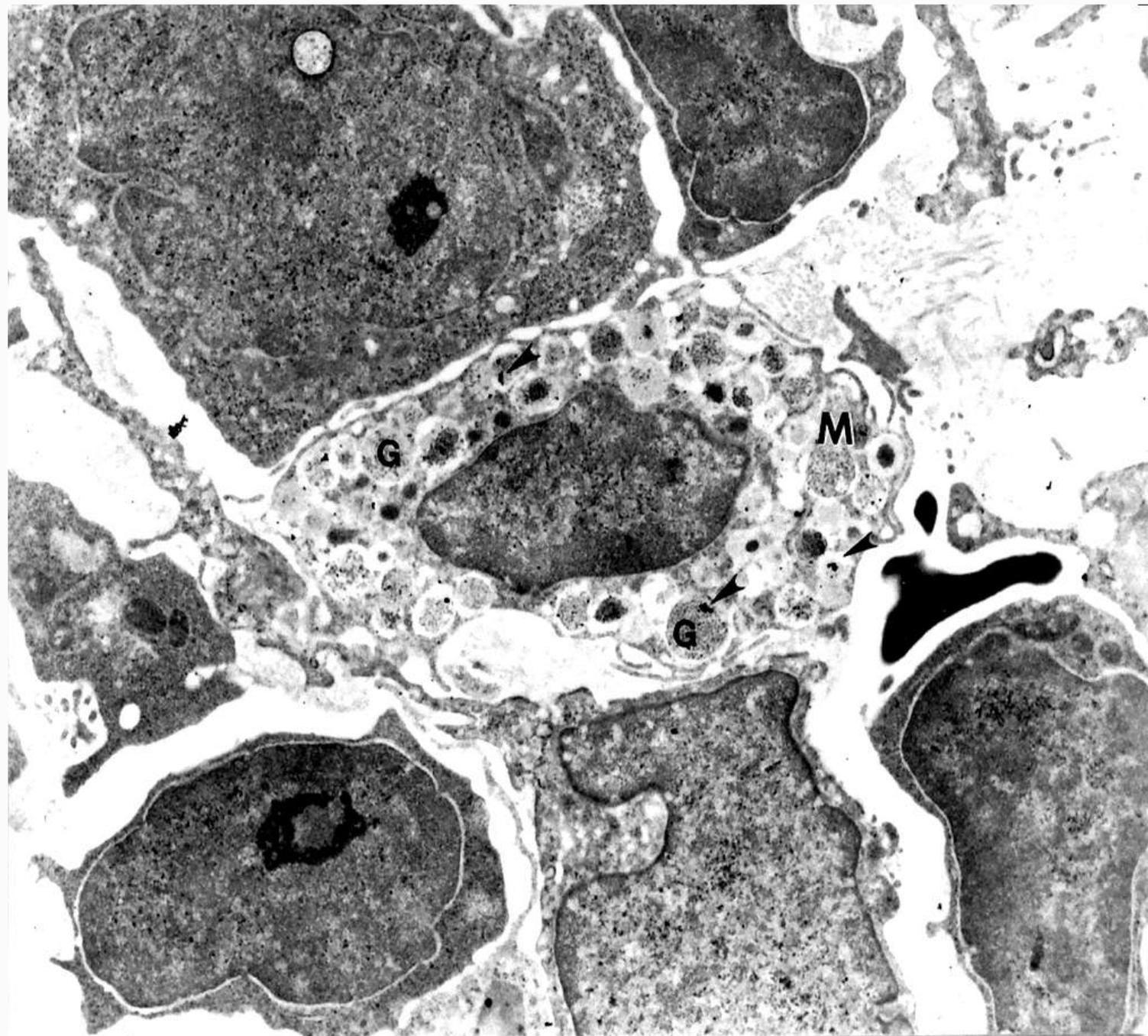
Análise Ultraestrutural

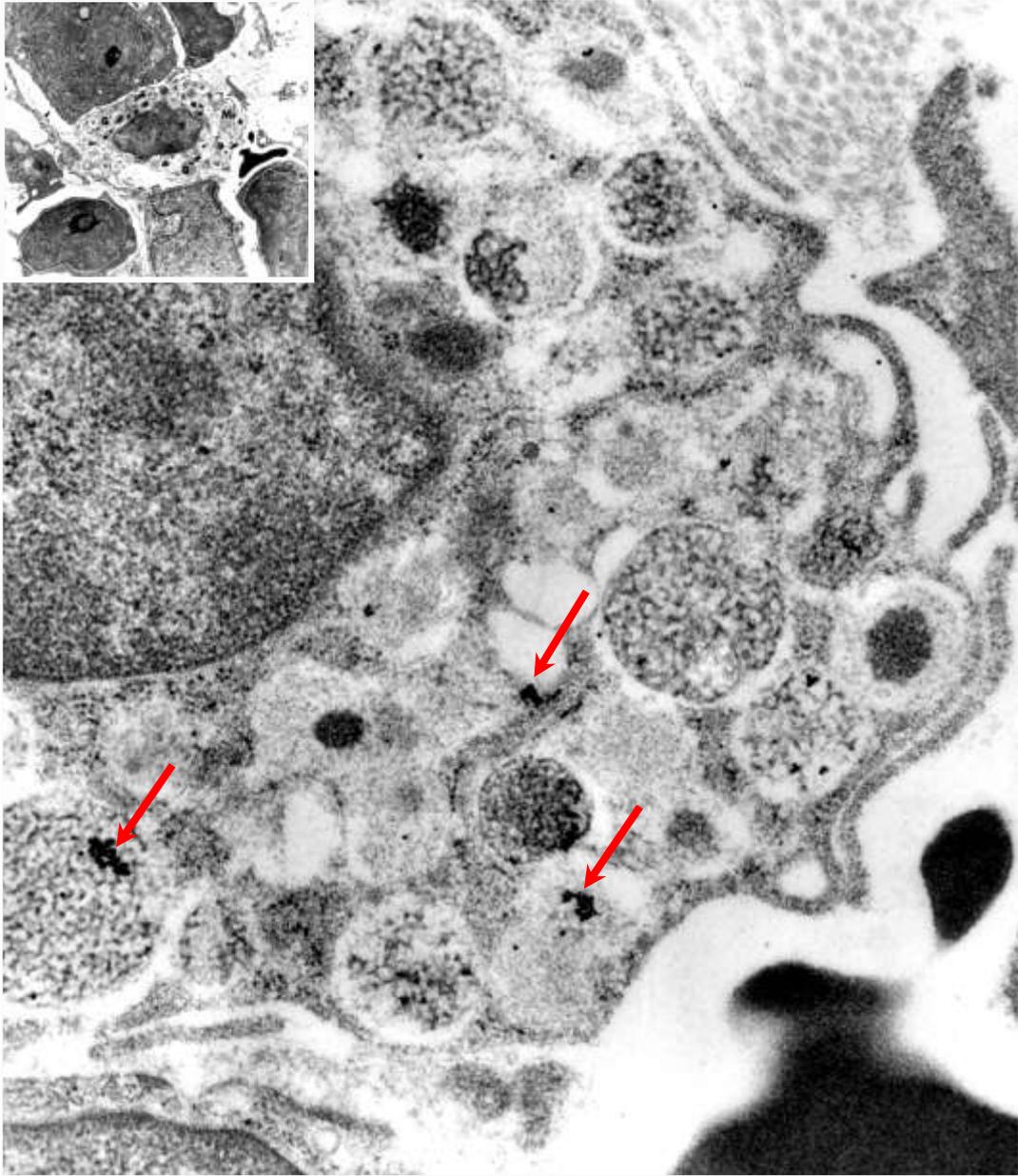


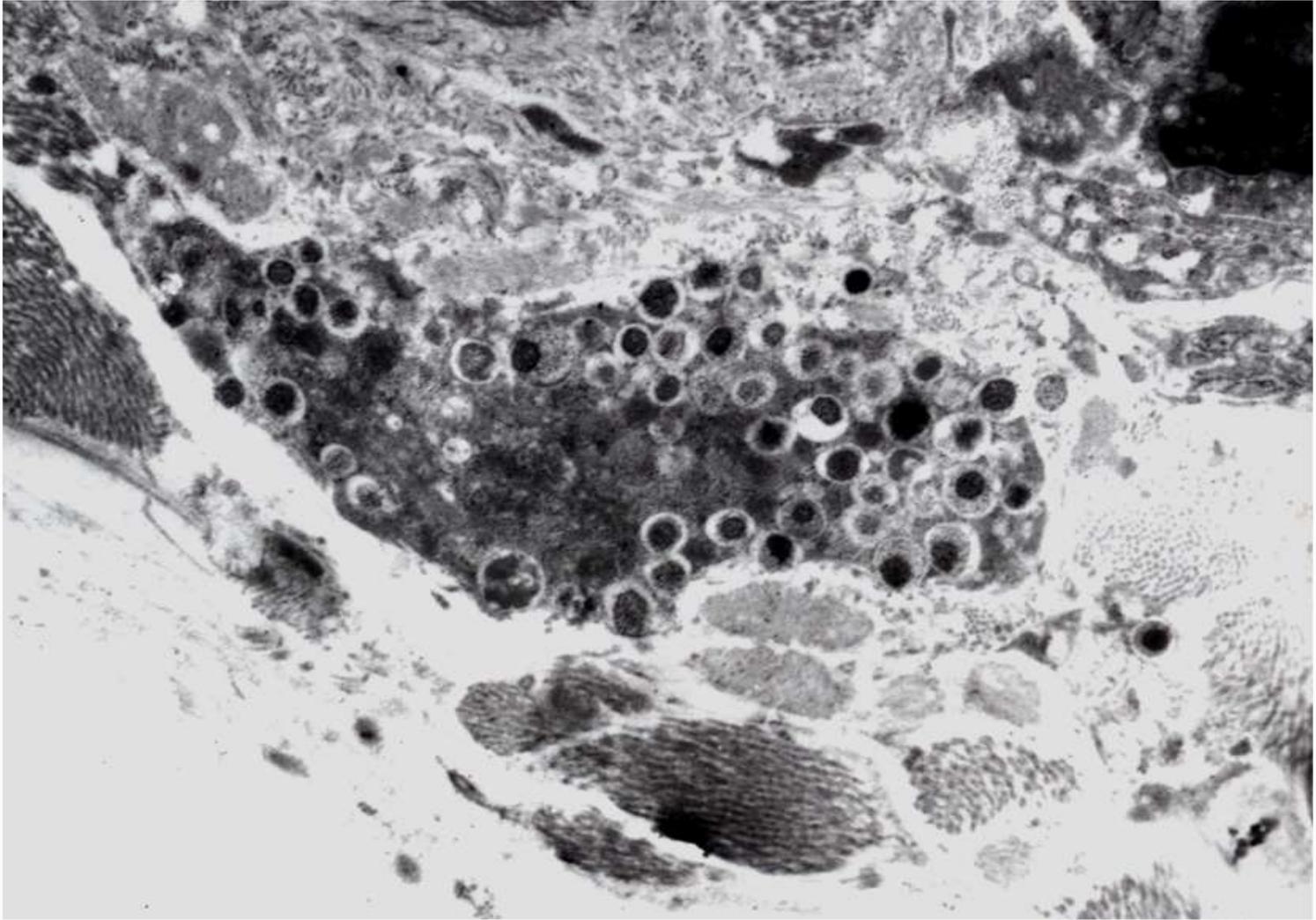
ZEISS – LEO 906 – Laboratório de Microscopia Eletrônica – IBILCE - UNESP

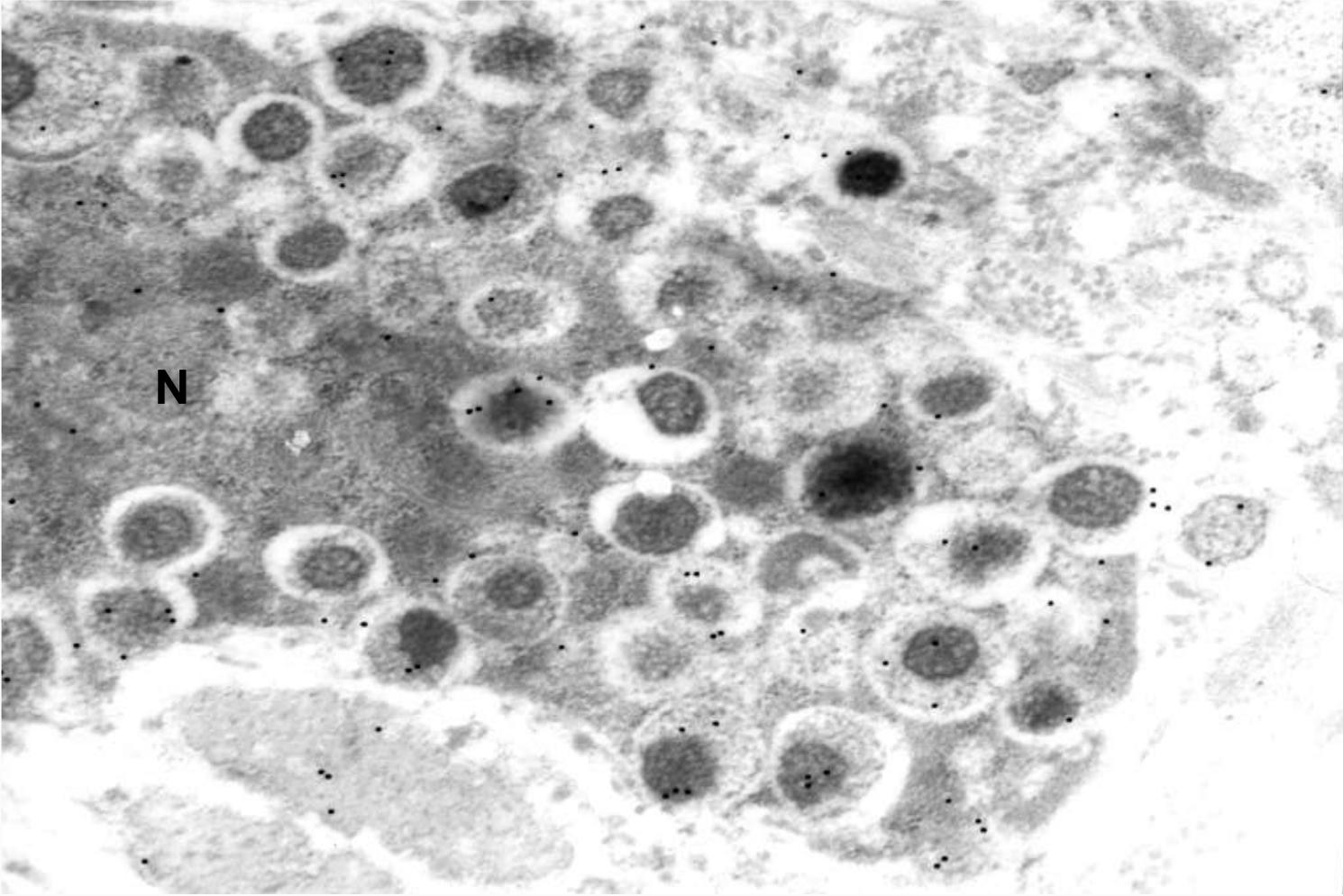
Imunocitoquímica











Peritumor

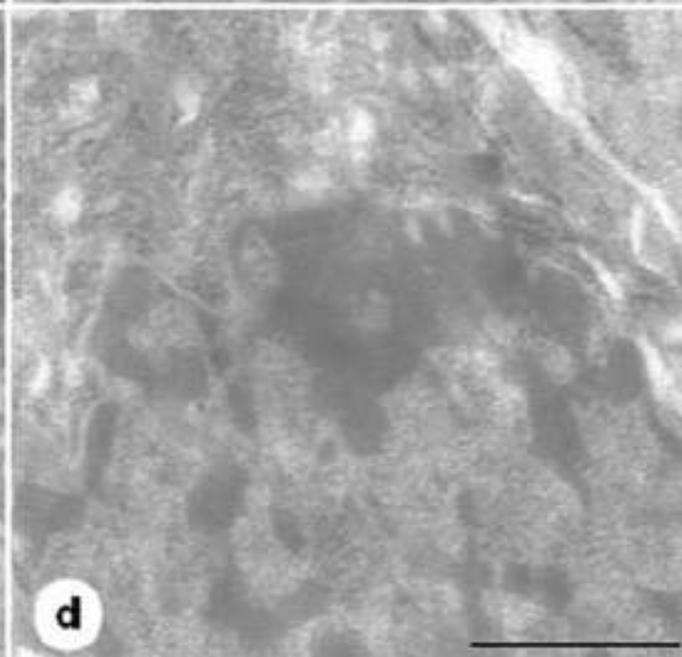
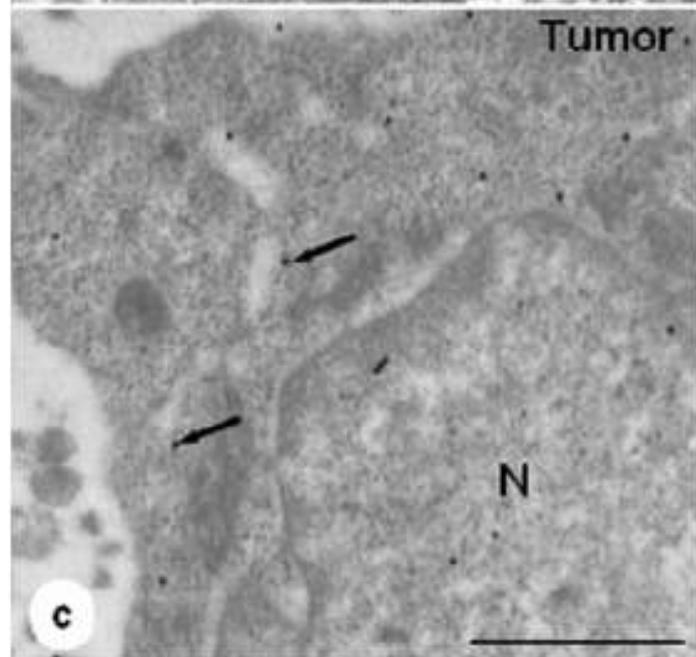
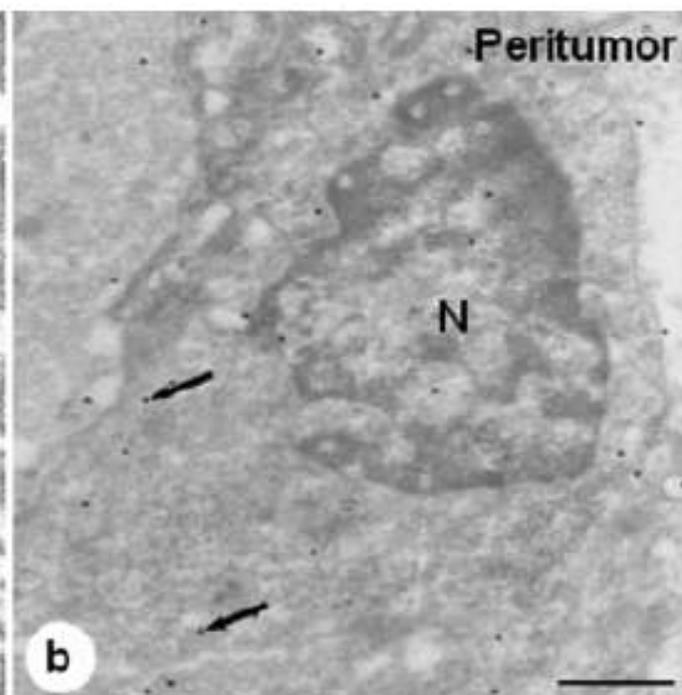
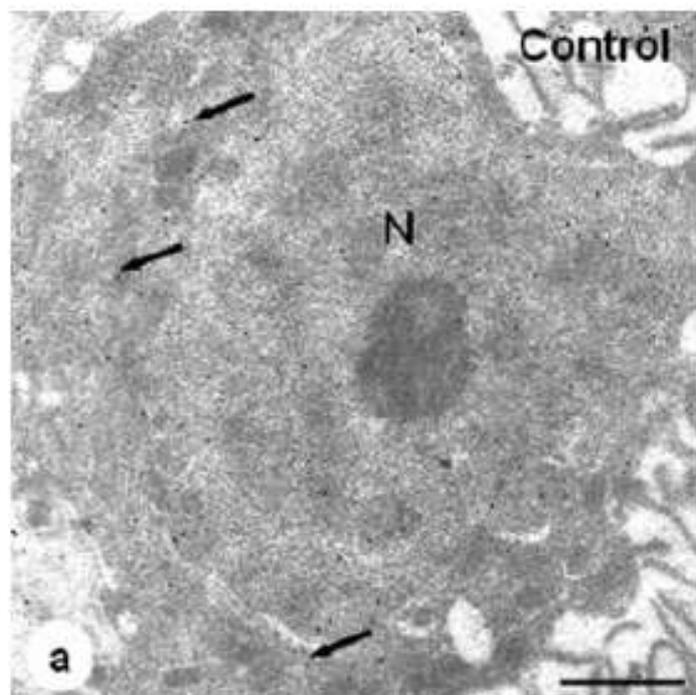
Immunocytochemical detection of ANXA1 and its expression in laryngeal tissue mast cells.

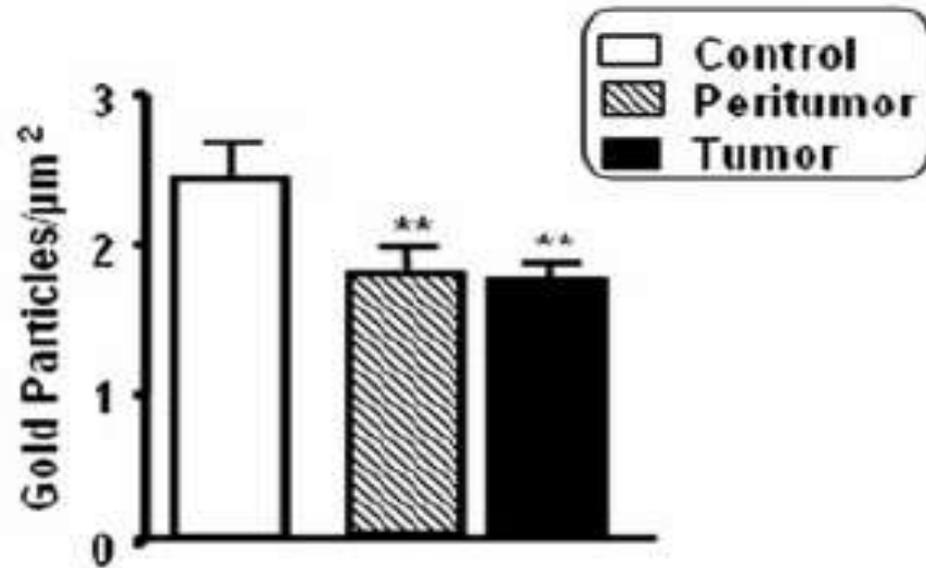
Immunoreactivity to ANXA1 in the mast cells
(gold particles/ μm^2)

Tissue	Granule	Cytoplasm	Membrane
Control	0.38 ± 0.01 (34)	0.33 ± 0.008 (34)	0.32 ± 0.004 (26)
Tumor	1.09 ± 0.01 (36)*	0.76 ± 0.008 (36)*	0.21 ± 0.004 (33)*
Peritumor	1.08 ± 0.01 (33)*	0.78 ± 0.008 (33)*	0.13 ± 0.004 (32)*

Data were showed as mean \pm SEM of n in different mast cells analysed in the control, tumor and peritumor laryngeal tissue.

*P<0.05 vs. control

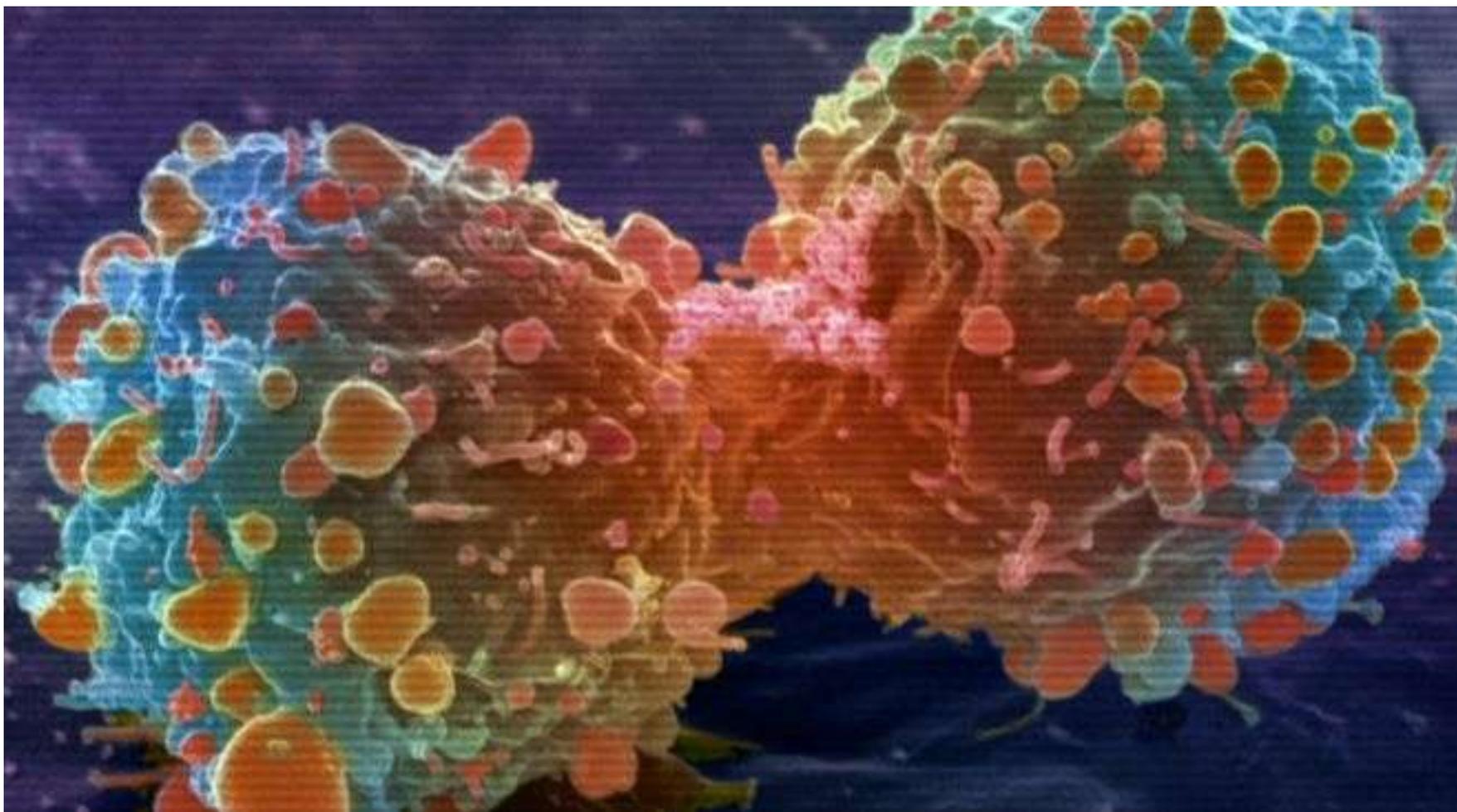




Software Axiovision

CONCLUSÃO

***AS TÉCNICAS DE MICROSCOPIA
ELETRÔNICA SÃO IMPORTANTES PELOS
RESULTADOS MORFOLÓGICOS E
ESPECÍFICOS E TÊM SIDO CADA VEZ MAIS
USADAS COMO FERRAMENTA AUXILIAR NAS
PESQUISAS RELACIONADAS AO CÂNCER.***



OBRIGADA!

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