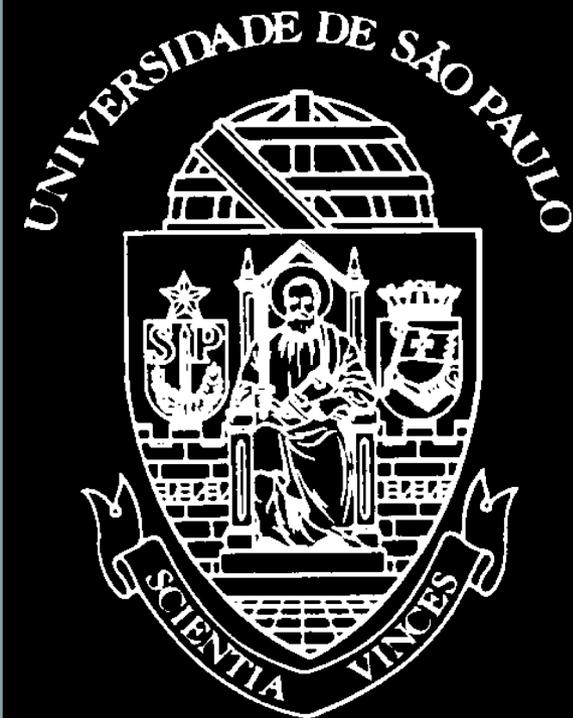




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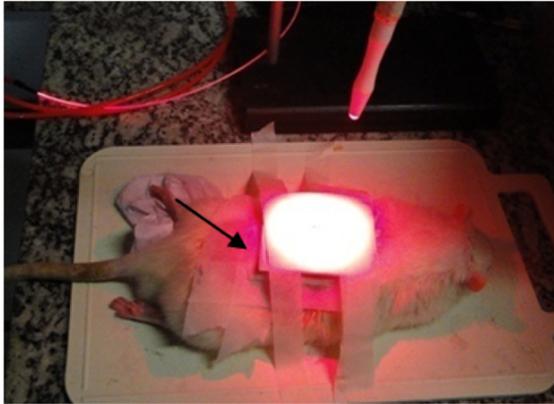
TERAPIA FOTODINÂMICA

Cristina Kurachi
Laboratório de Biofotônica

Instituto de Física de São Carlos



Material e métodos



DOSE (J/cm ²)	INTENSIDADE (mW/cm ²)	TEMPO (s)
30	50	600

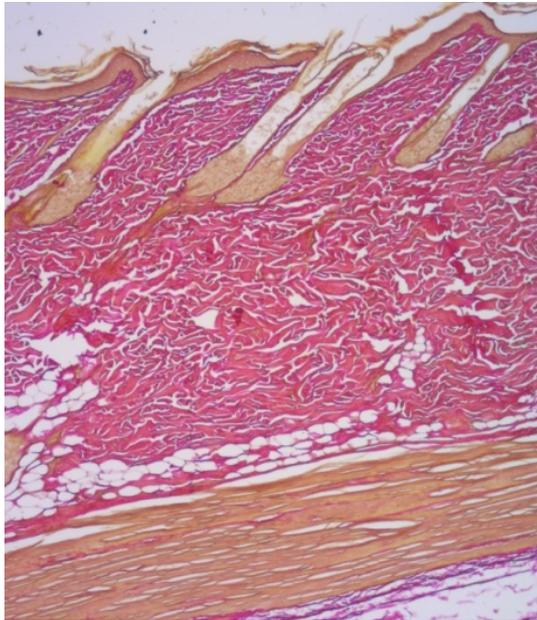
ALA 20%



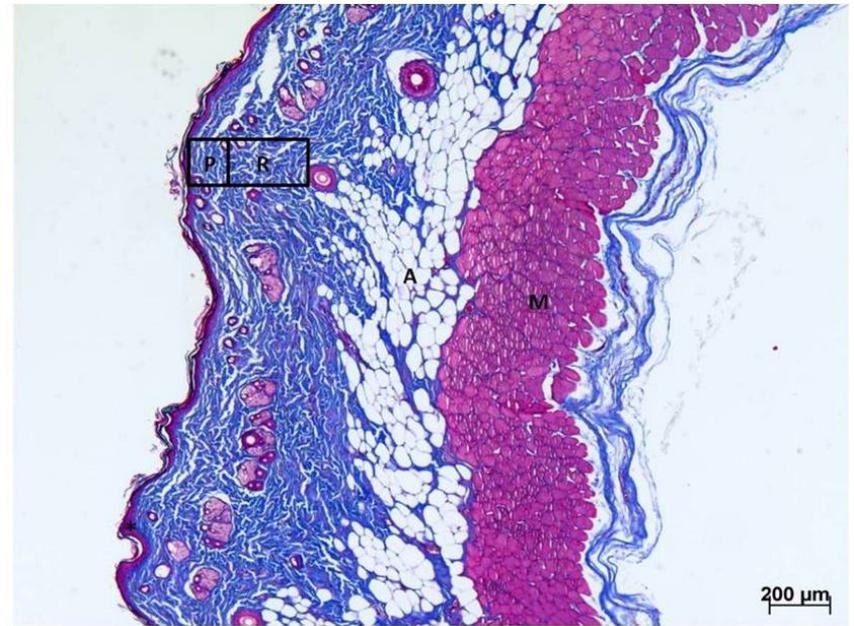
40Hz e uma potencia de 30W.

Material e métodos

Estudo Microscópico

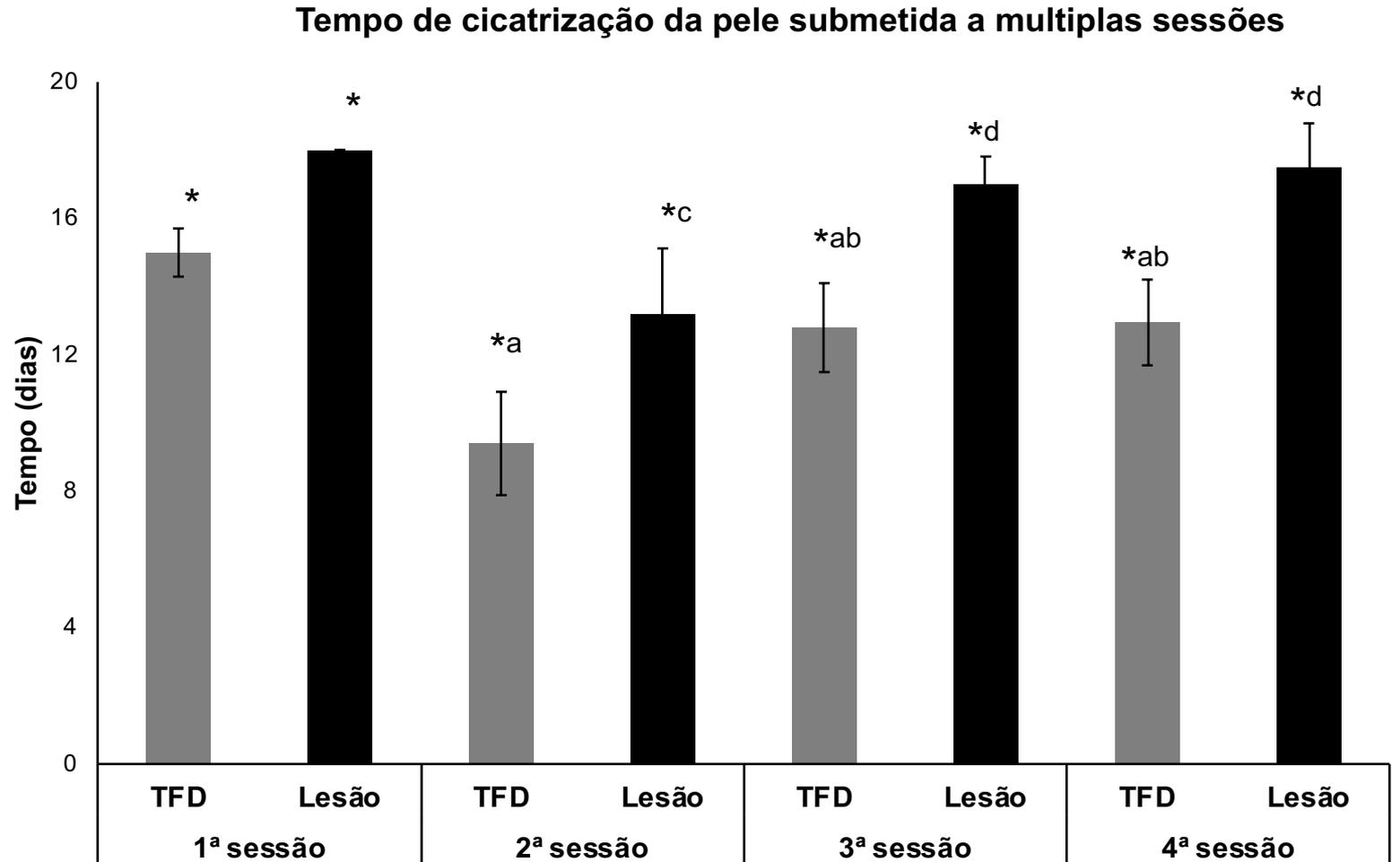


Veroff



Tricrômico de Masson

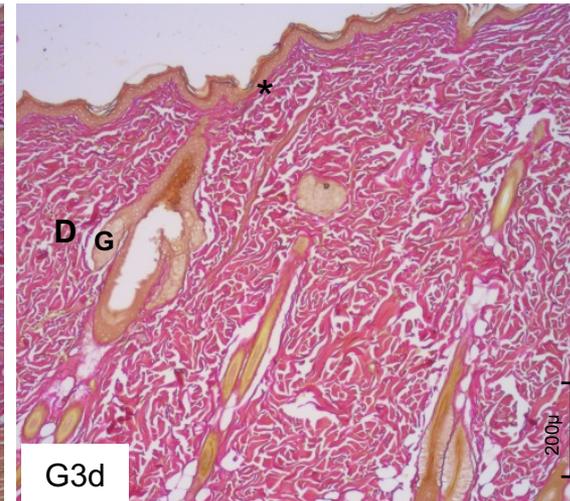
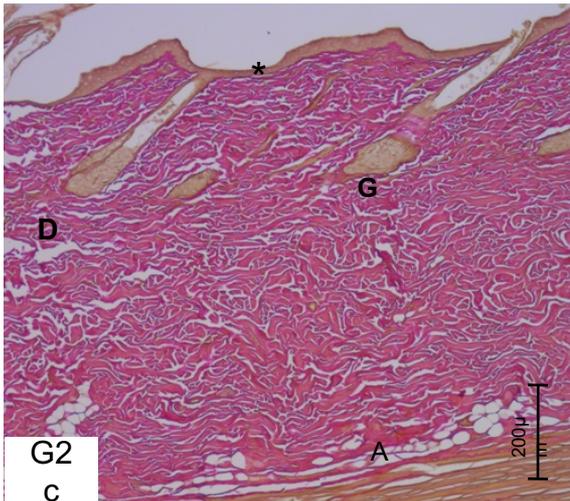
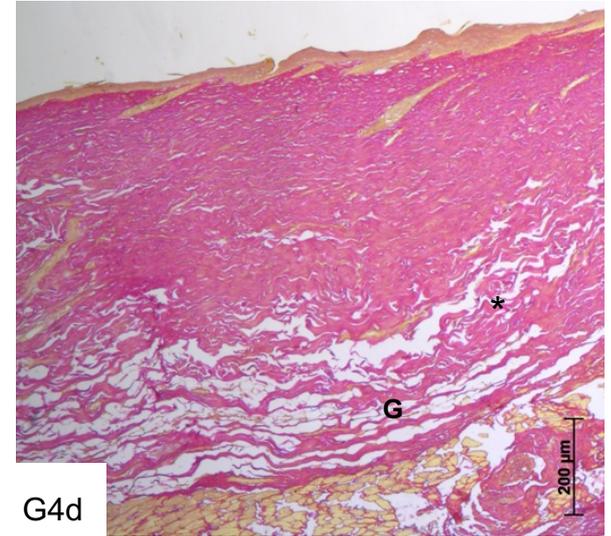
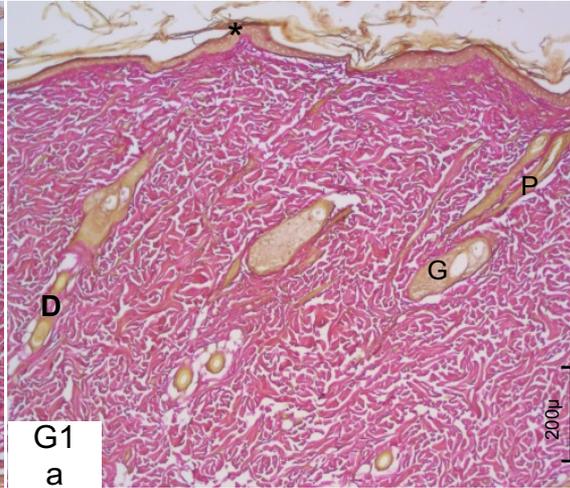
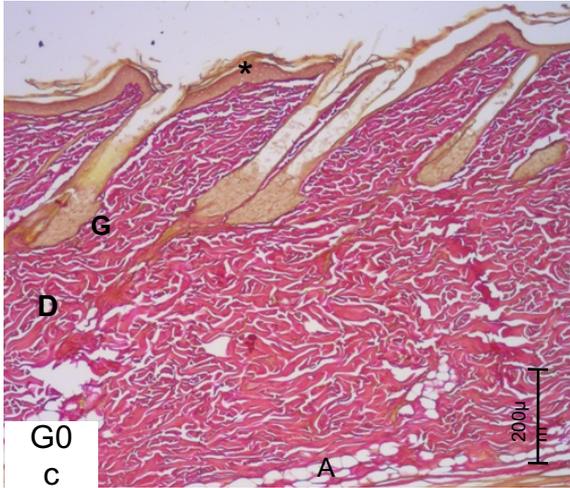
Resultados



*Diferença significativa intragrupo (TFD vs Lesão), $p < 0,05$

Resultados

Glândulas sebáceas-Grupo TFD/Lesão

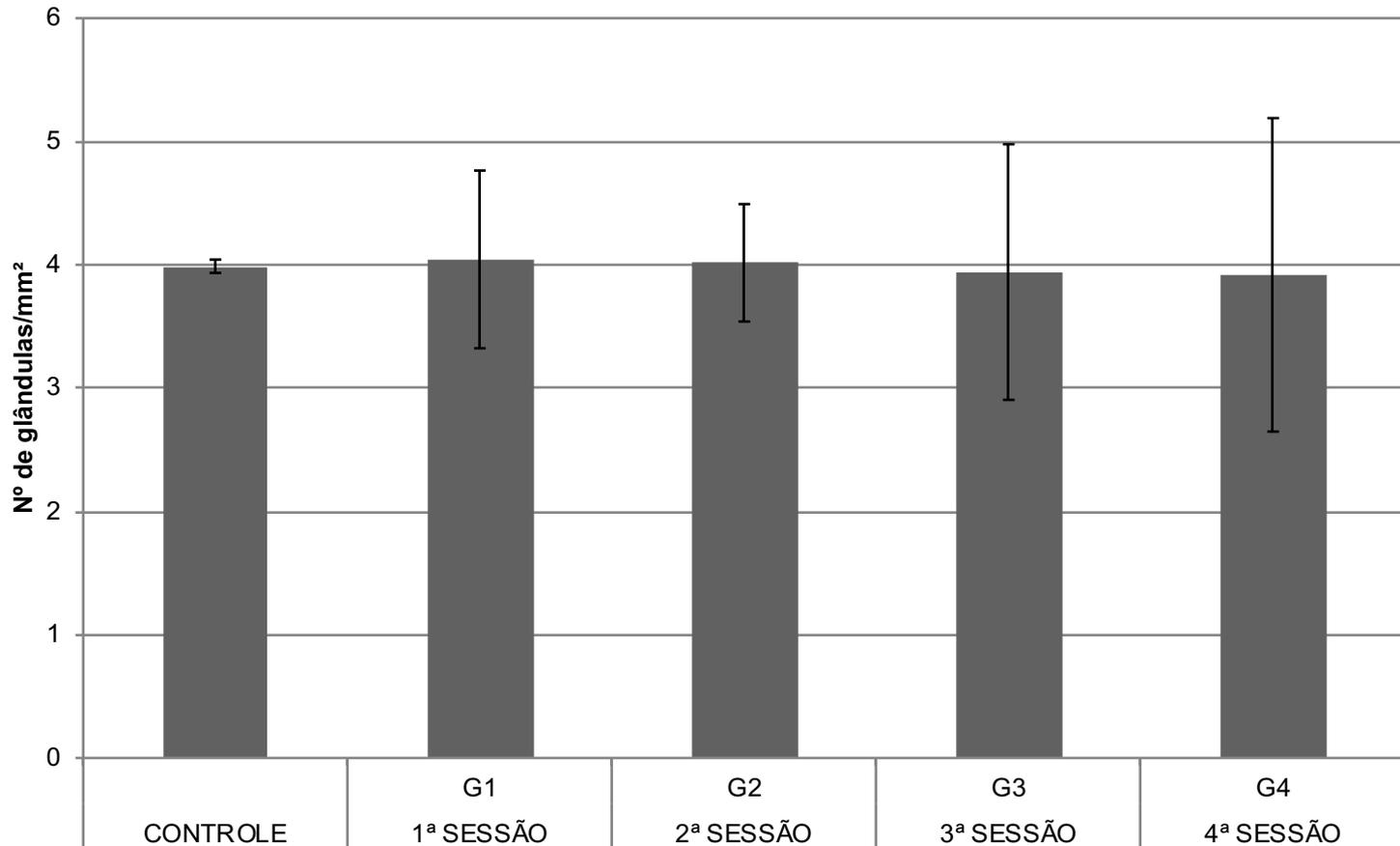


G4d

Fotomicrografia demonstrando a derme (D) e epiderme (*), camadas do tegumento e as unidades pilossebáceas, compostas do folículo piloso e da glândula sebácea [verhoff; 50x].

Resultados

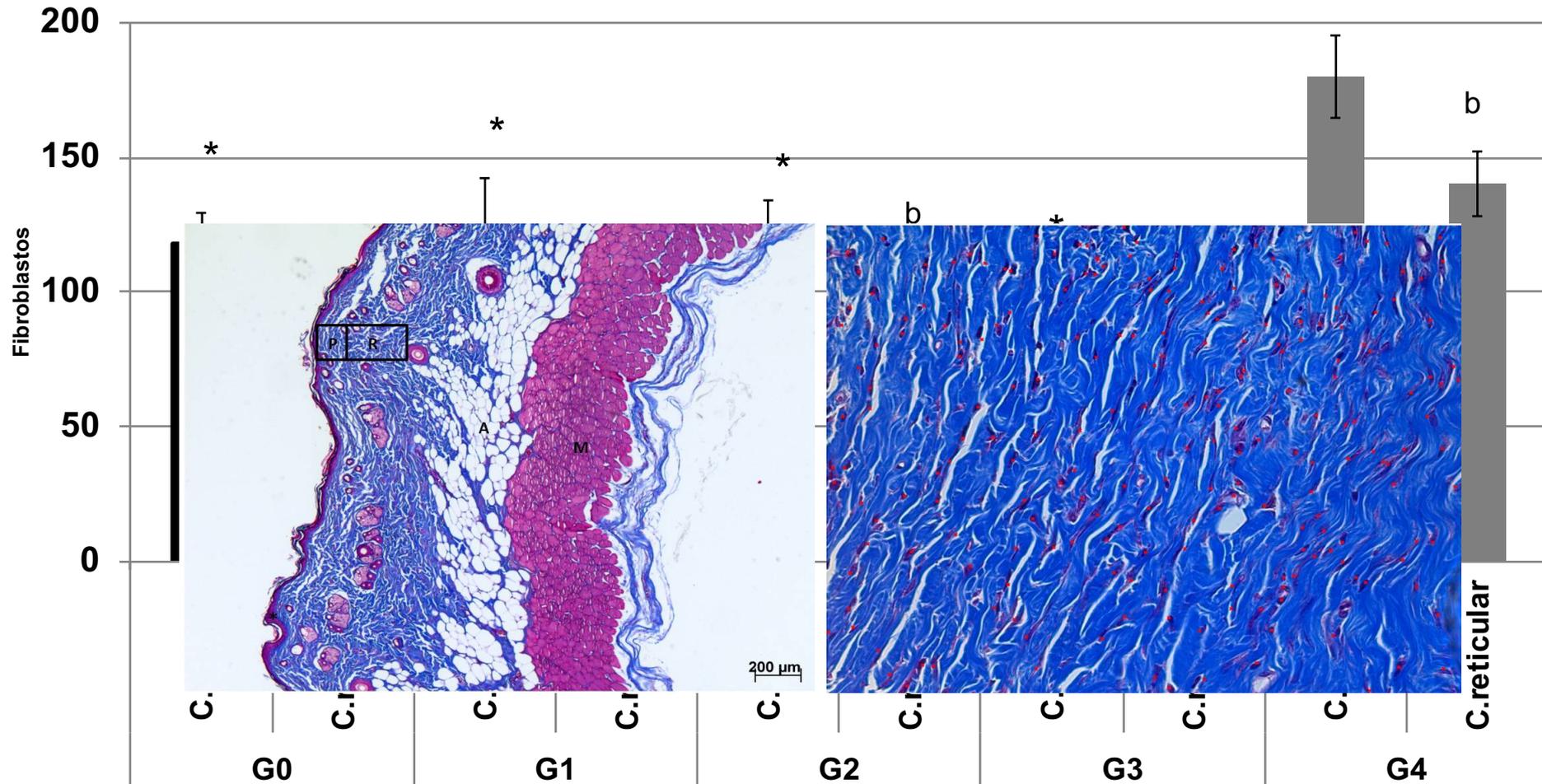
Concentração de Glândulas/mm²



Representação gráfica das médias aritméticas da concentração de glândulas/mm². Não apresentou diferença estatística intergrupo.

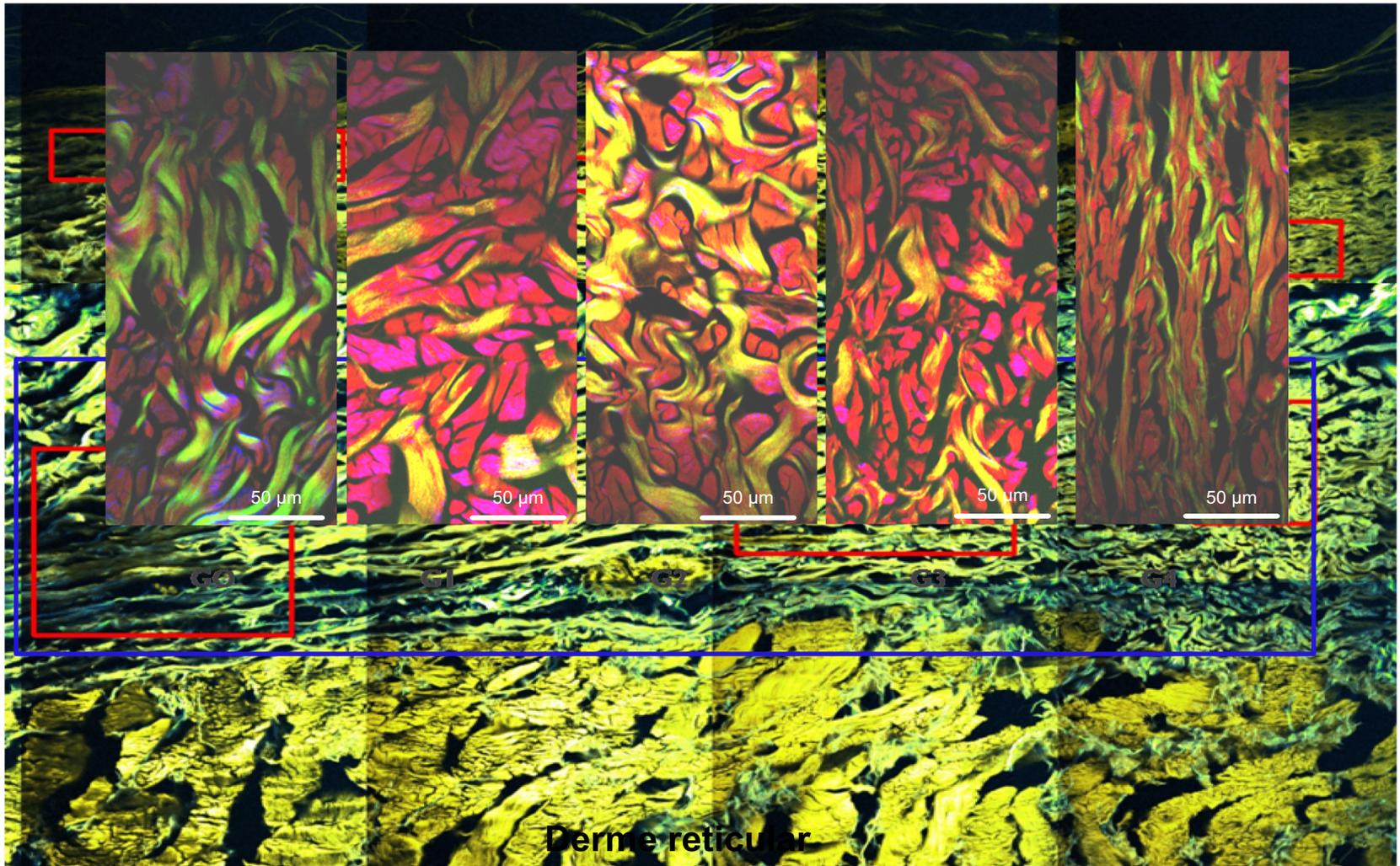
Resultados

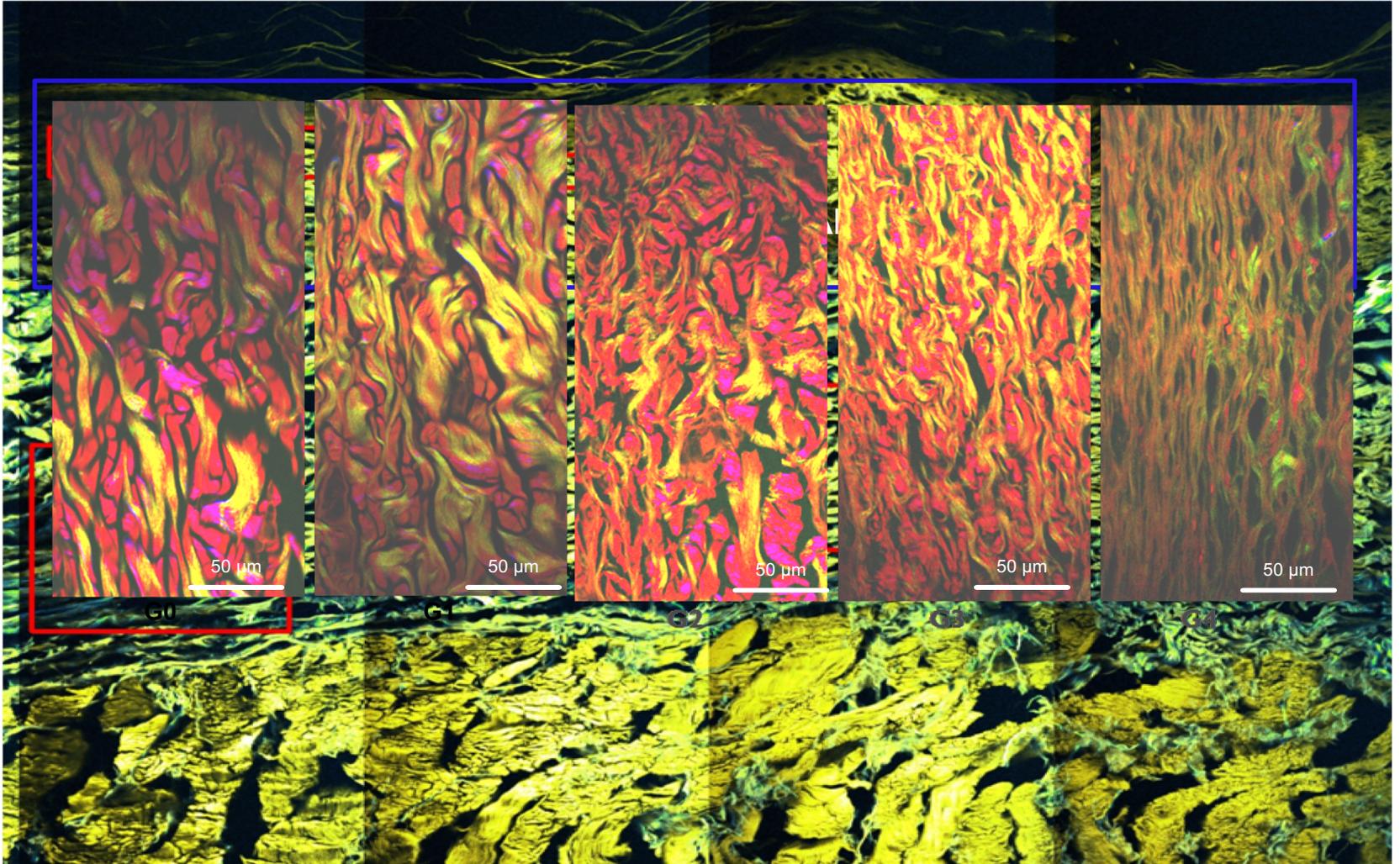
Contagem de fibroblastos na derme



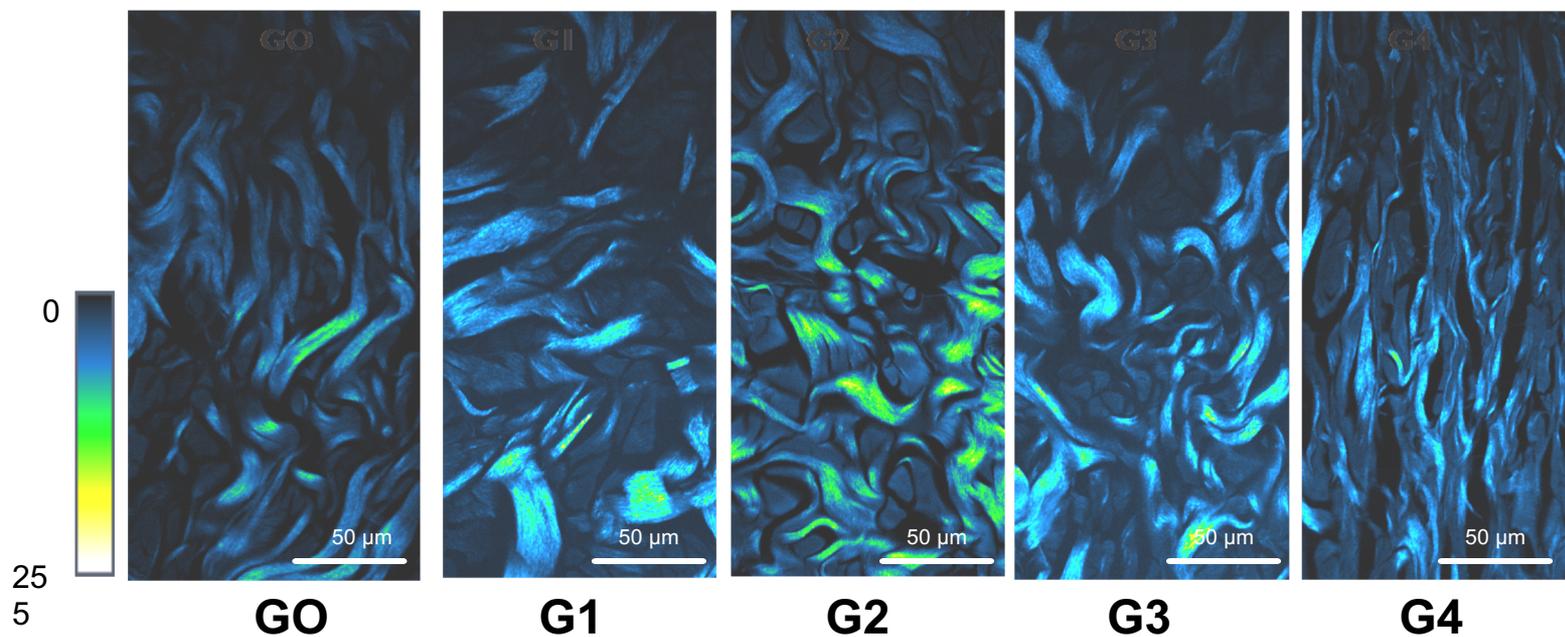
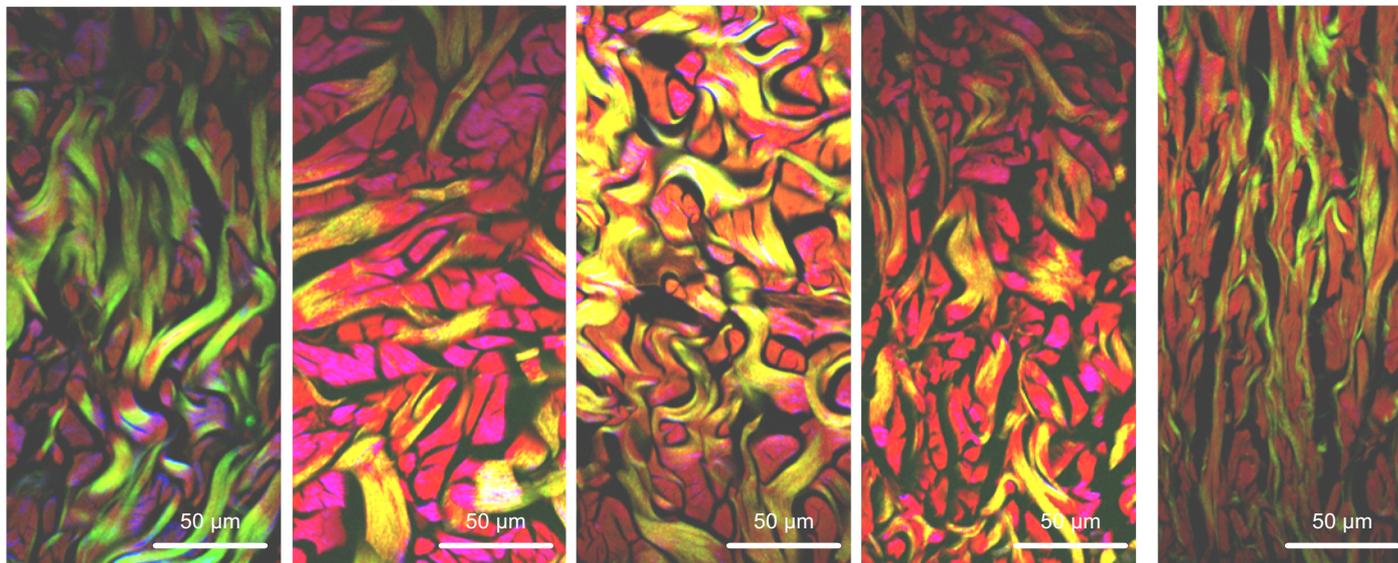
Representação da quantidade de fibroblastos encontrada na derme; as barras pretas representam o grupo controle. (*) Diferença significativa intergrupo- camada papilar (G4 vs G0, G1, G2, G3), $p < 0,05$. (b) Diferença significativa intergrupo -camada reticular (G4 vs G0, G1, G2, G3).

Microscopia multi-fotón, fluorescência das fibras de colágeno coradas com HE

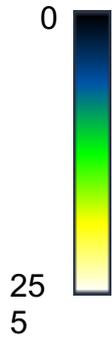
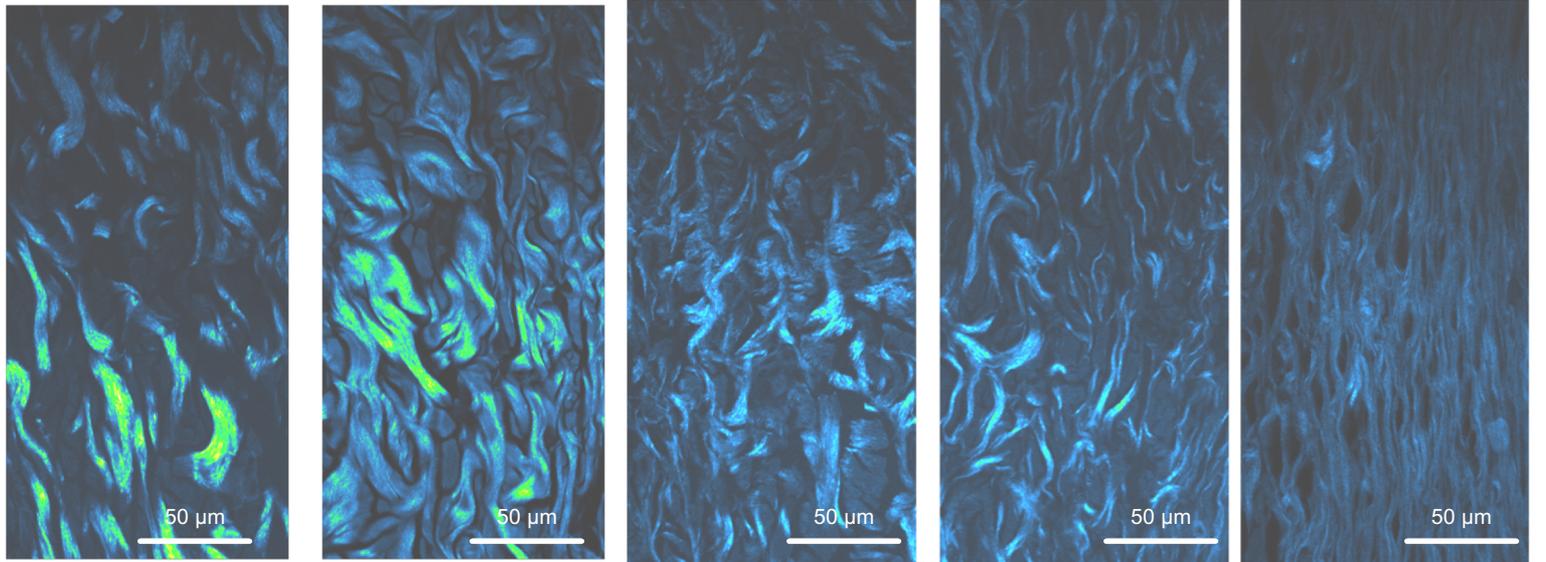
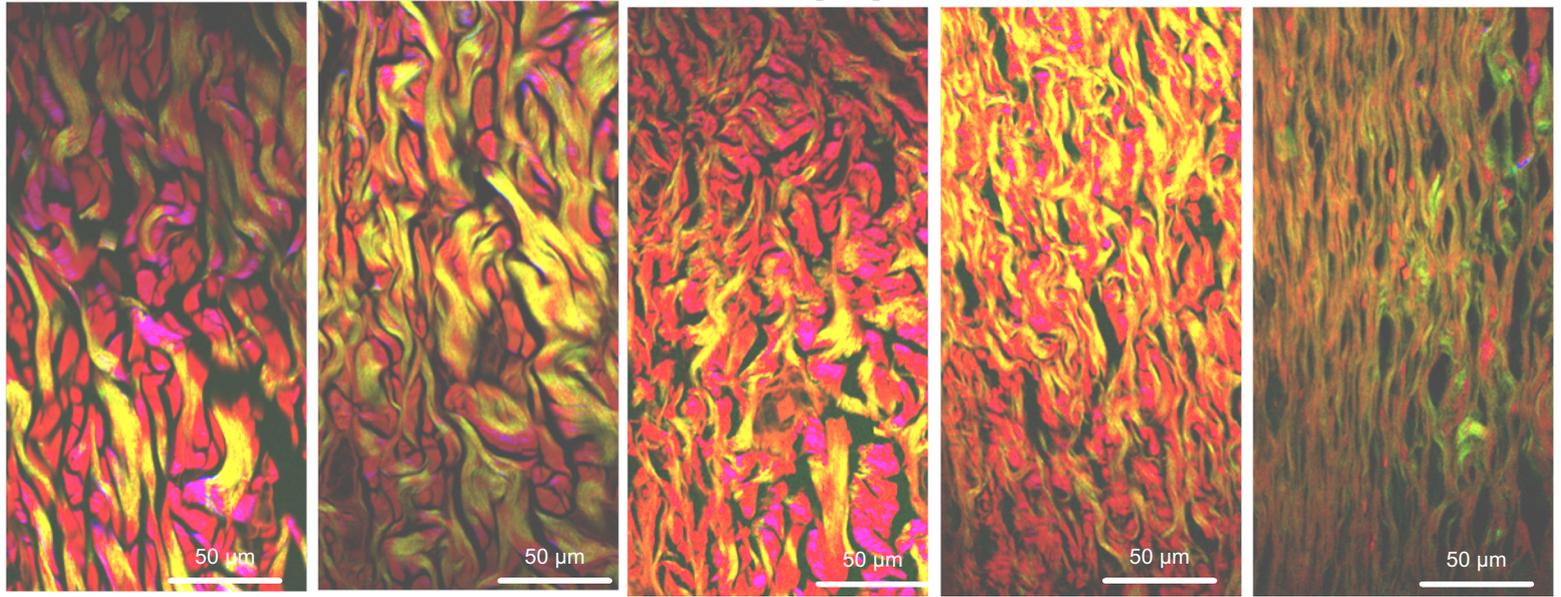




GERAÇÃO DO SEGUNDO HARMÔNICO



Derme papilar-SHG



GO

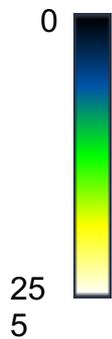
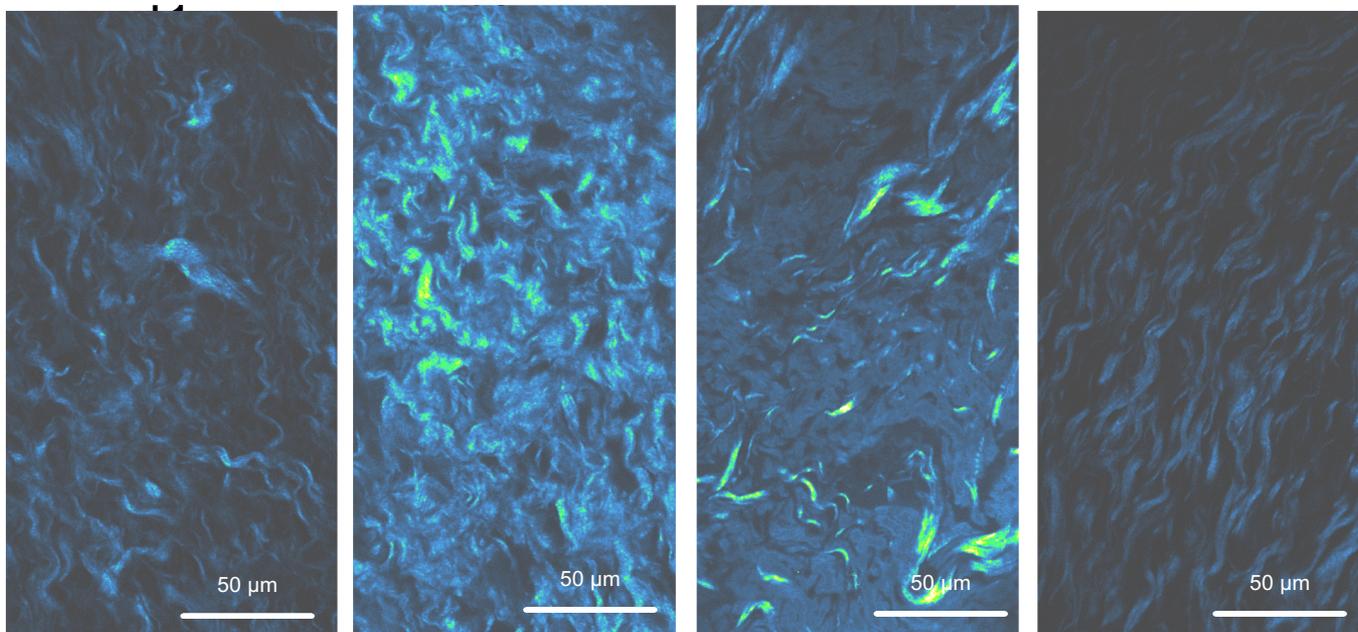
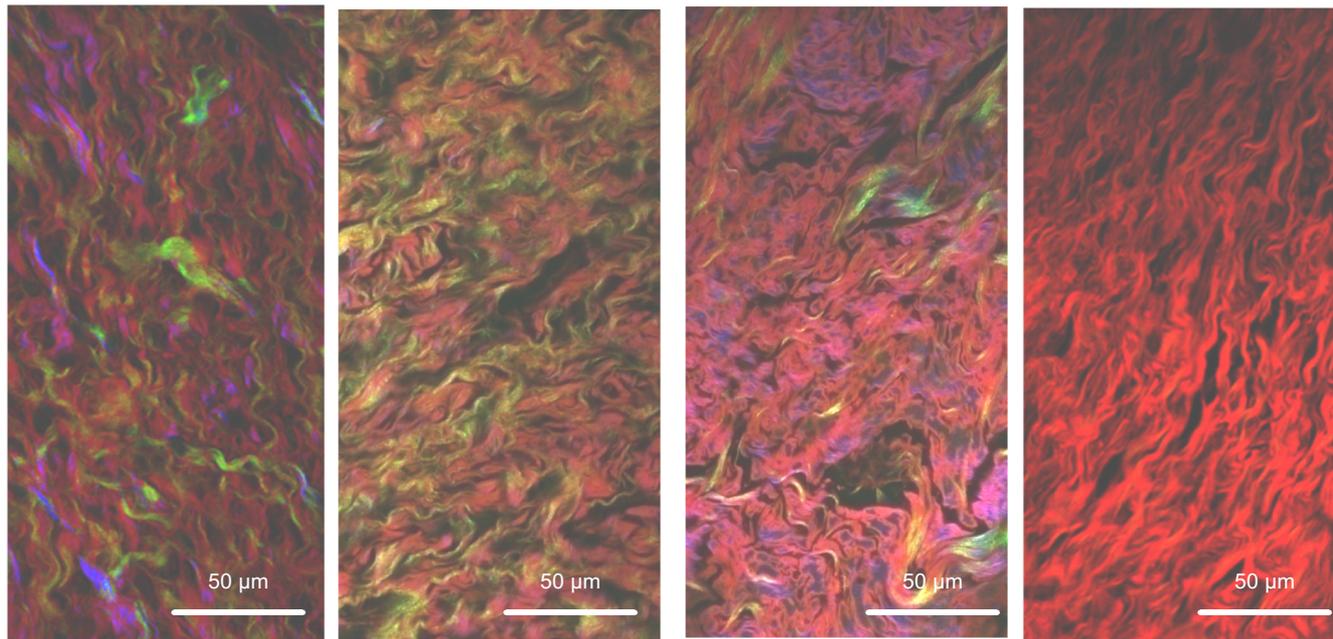
G1

G2

G3

G4

Derme reticular-SHG

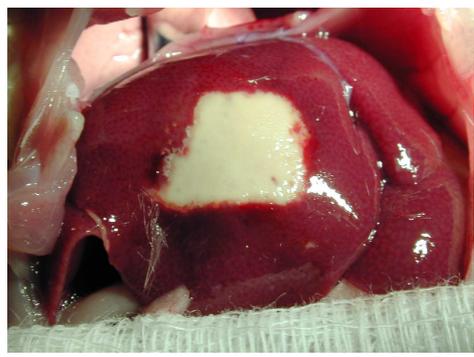
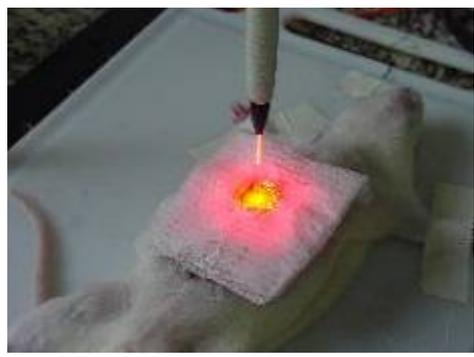
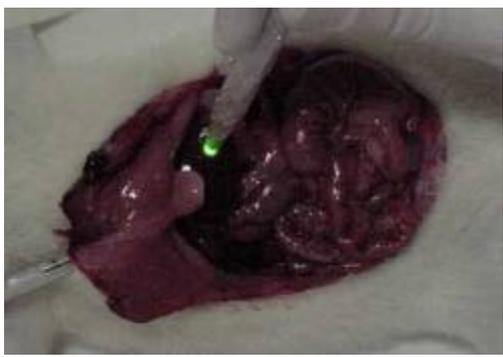
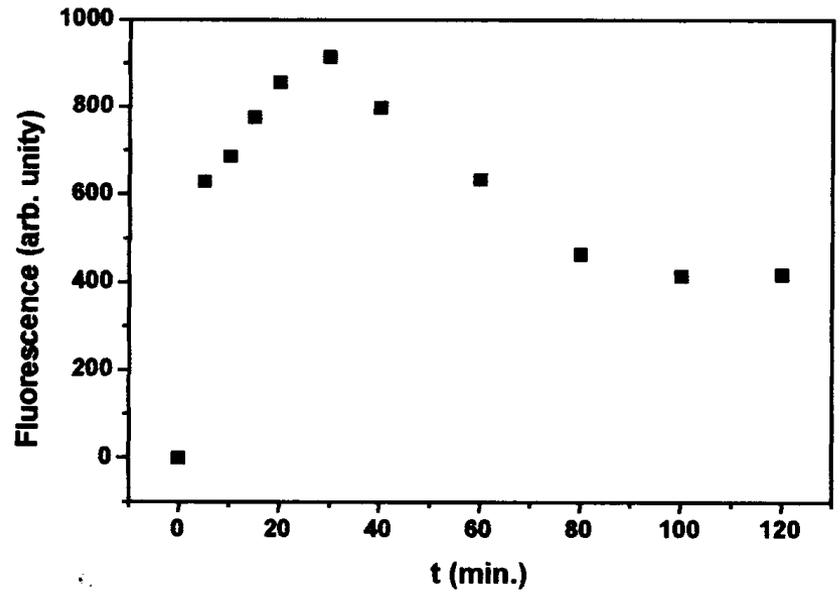
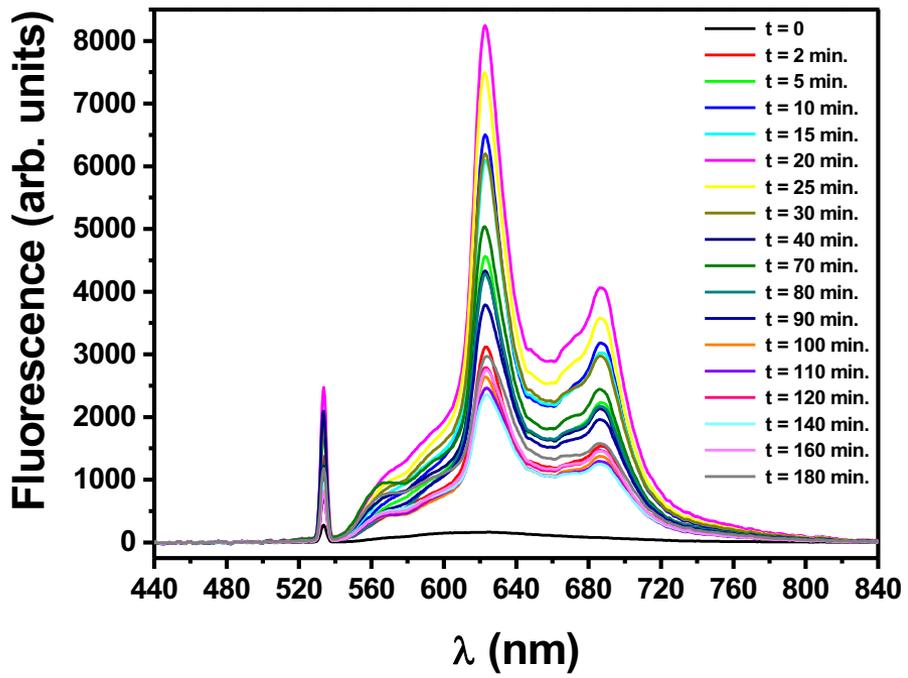


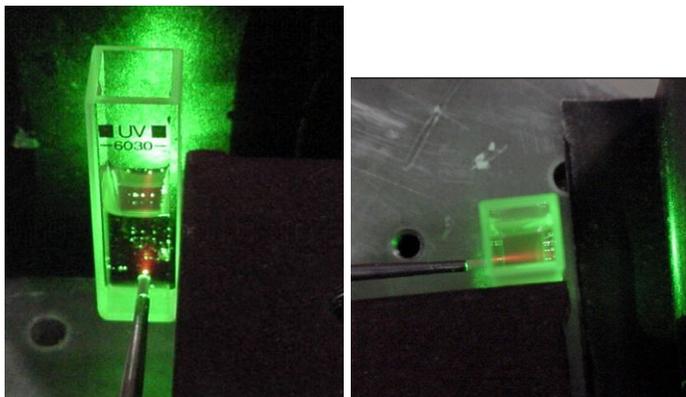
L1

L2

L3

L4

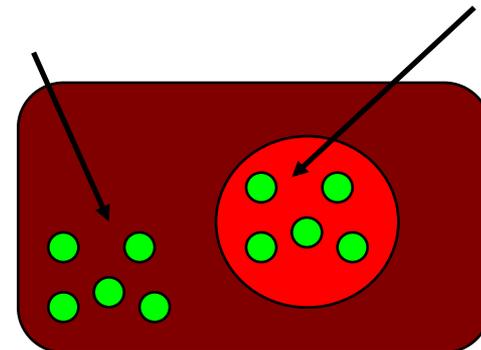
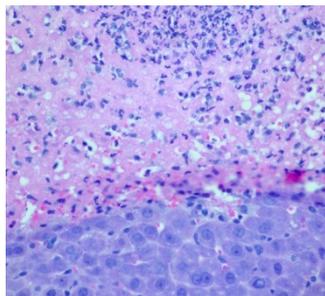
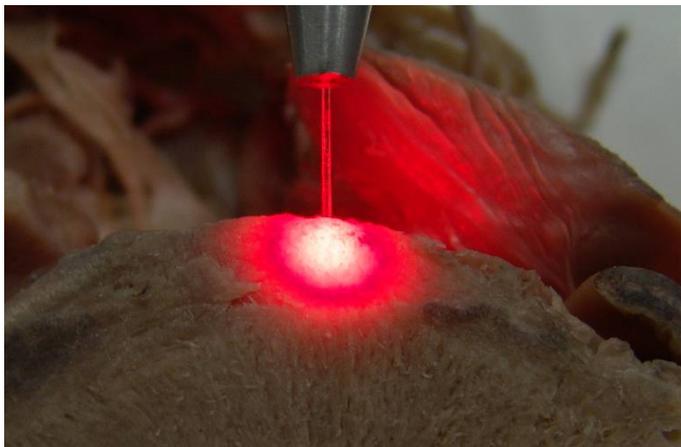
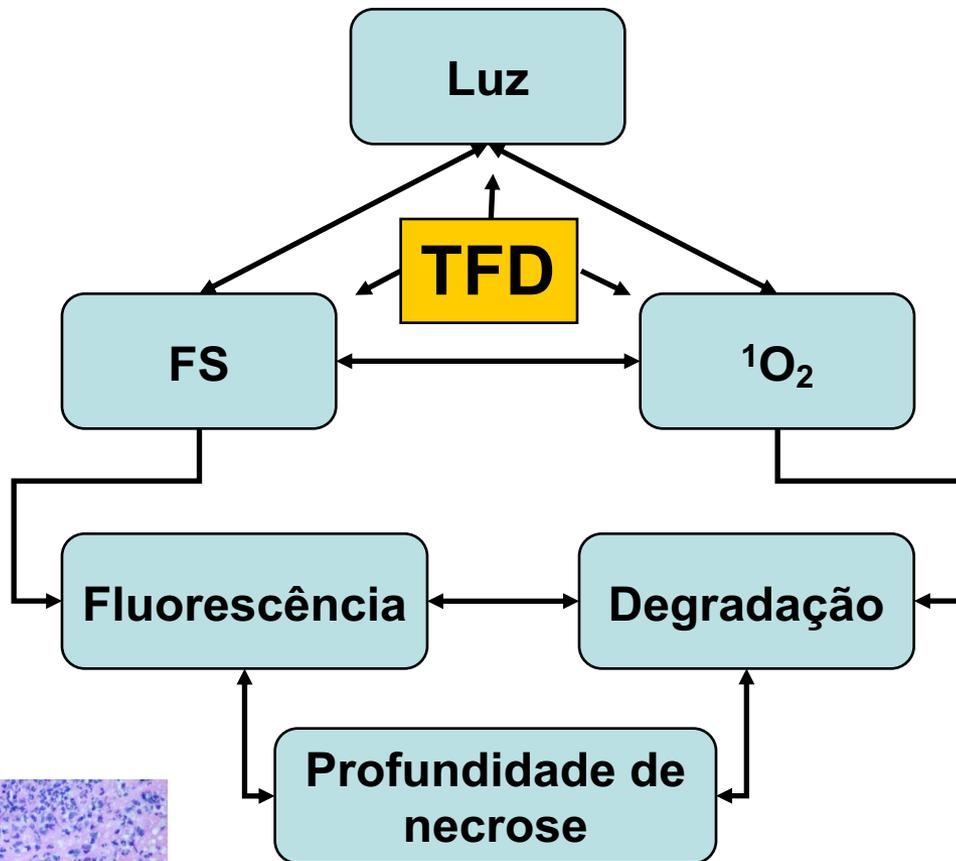




Dosimetria individualizada

- Detecção do FS
- Caracterização óptica do tumor

Previsão da profundidade de necrose



150 mW/cm²

