

研究報告

B4 小谷

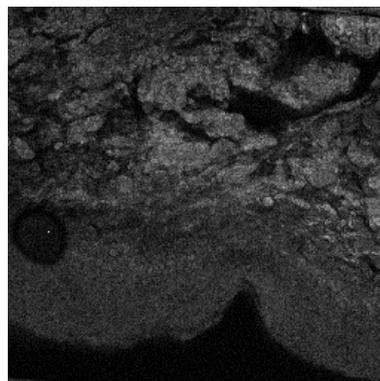
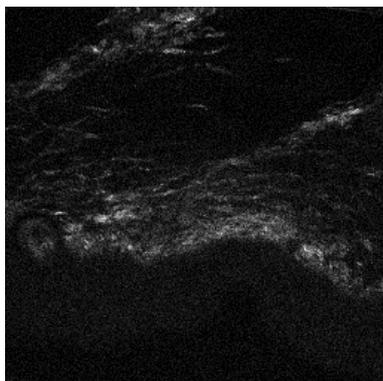
- 60代顔皮膚切片サンプル(厚さ 60 μ m)を観測

- ・パワー30mW, スリット幅 2mm

SHG イメージ

TPEF イメージ

730nm

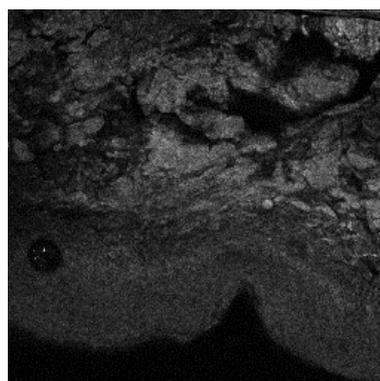
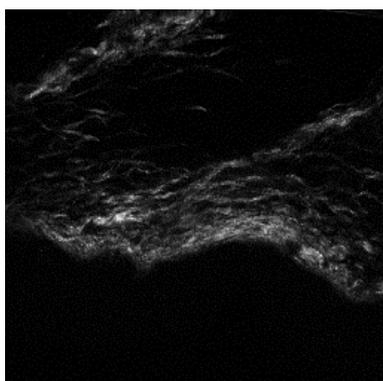


光子数

278169

1235188

750nm

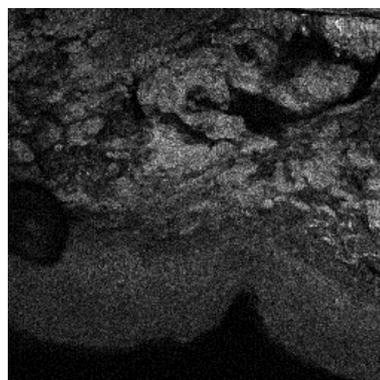
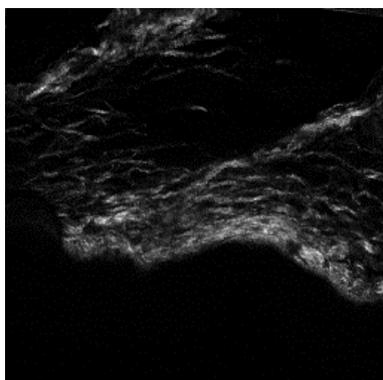


光子数

628497

1173470

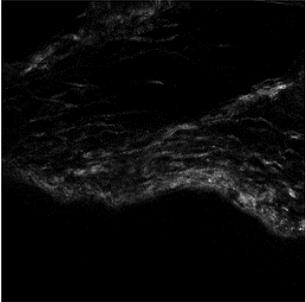
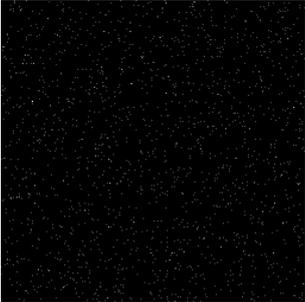
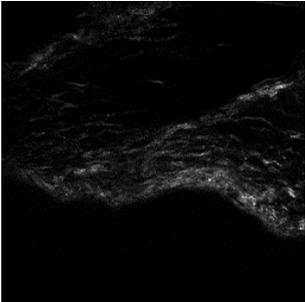
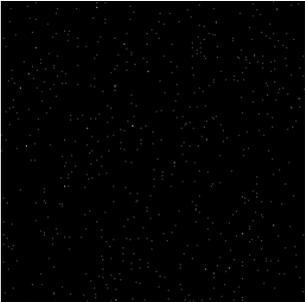
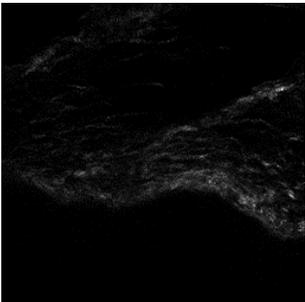
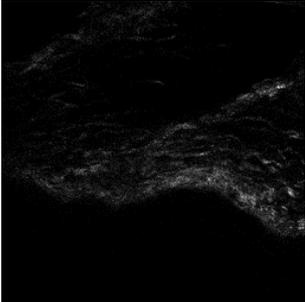
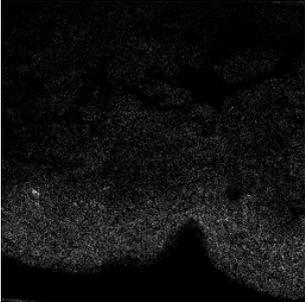
800nm



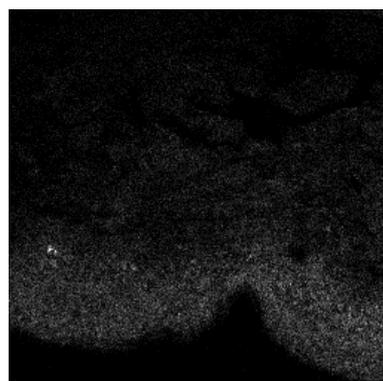
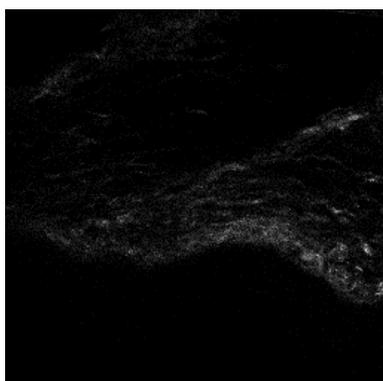
光子数

1056696

566660

| | SHG イメージ | THG イメージ |
|--------|---|--|
| 1000nm |  |  |
| 光子数 | 477976 | 1791 |
| 1050nm |  |  |
| 光子数 | 322416 | 625 |
| 1100nm |  |  |
| 光子数 | 208913 | 21362 |
| 1150nm |  |  |
| 光子数 | 133440 | 91253 |

1200nm

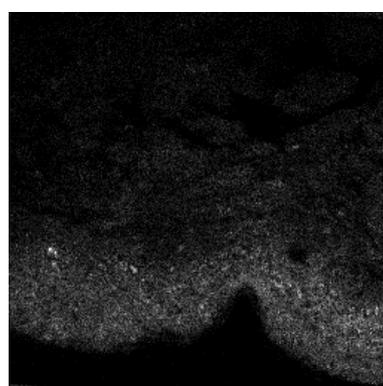
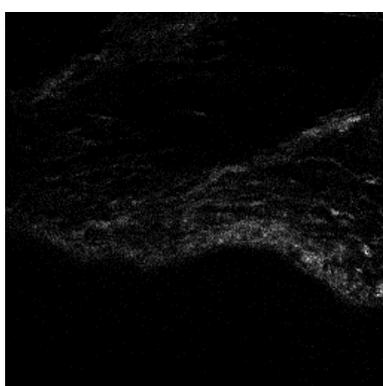


光子数

79446

125403

1250nm

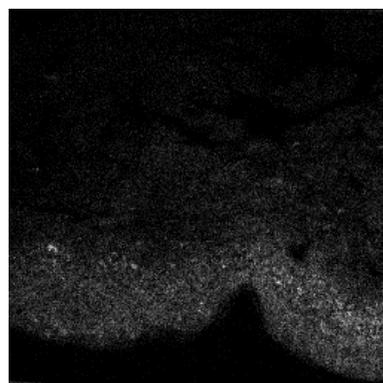
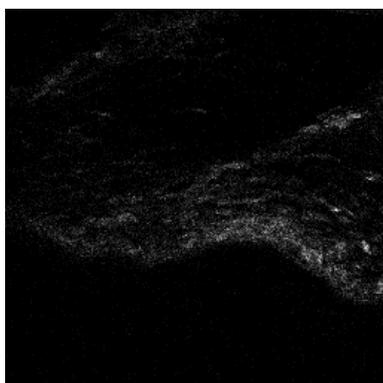


光子数

62724

190390

1300nm

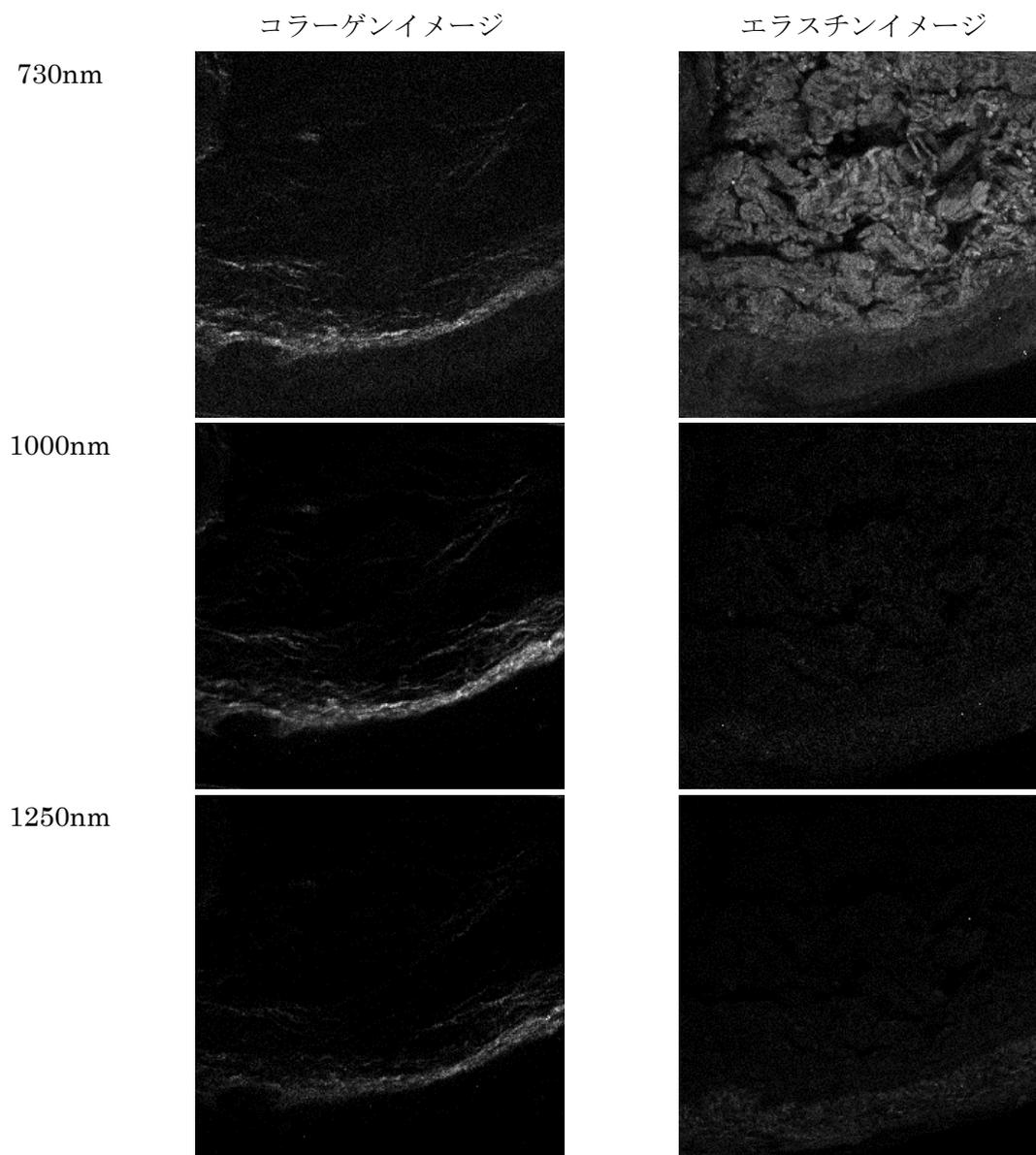


光子数

40443

146622

- 短波長側および長波長側において最もよく見えていた波長で比較
 - ・パワー30mW, スリット幅 2mm



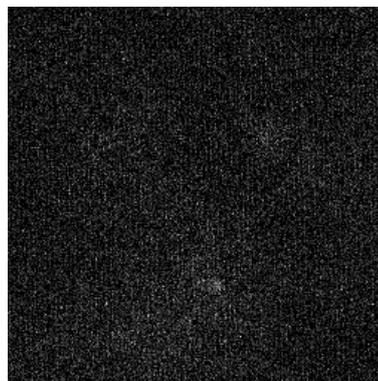
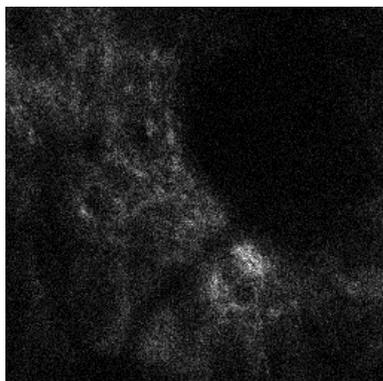
● In vivo 計測

- ・ 800nm で深さを合わせて、それ以降は全て同じ深さ
- ・ 小倉さん頬

コラーゲンイメージ

エラスチンイメージ

800nm

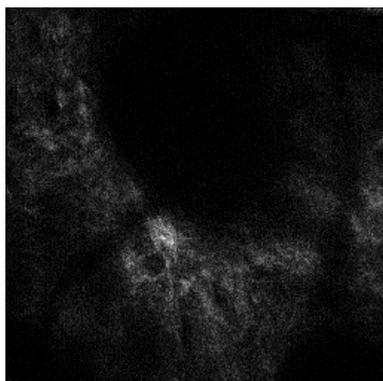


光子数

195435

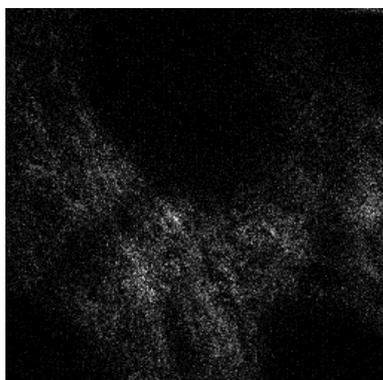
78545 (TPEF:450nm)

900nm



233892

1250nm

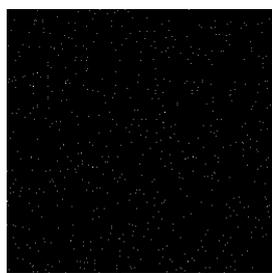


58389



5012

- 入射波長 1100nm における分光器の波長を変えた時のイメージ (顔皮膚サンプル)



340nm



360nm



366nm



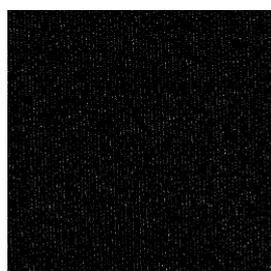
380nm



400nm



420nm



440nm



460nm



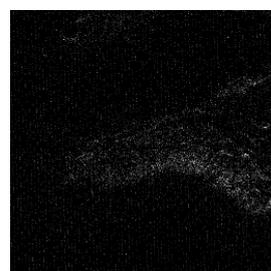
480nm



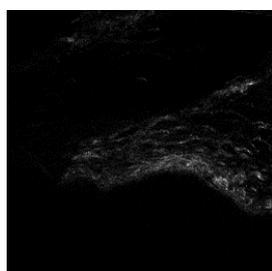
500nm



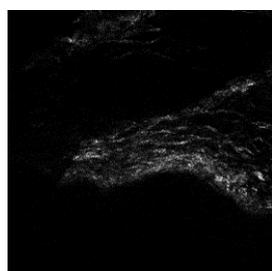
520nm



540nm



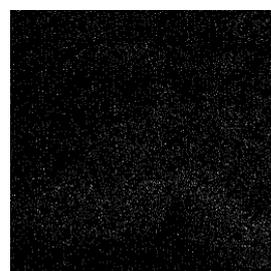
550nm



560nm



580nm



600nm

