

消化器外科学講座

【研究プロジェクト名および概要】

I. 消化管領域における研究

- ・ 消化器癌における腫瘍微小環境を標的とした Radiogenomics 解析
- ・ 遺伝性胃癌臨床検体を用いた上部胃癌発癌メカニズムの解明と革新的治療法の確立
- ・ 消化器癌術後の腸内細菌環境と骨格筋量の変化の網羅的解析
- ・ 空間トランスクリプトーム解析とリキッドバイオプシーを用いた直腸癌術前治療の効果予測を可能にする革新的バイオマーカー探索
- ・ 食道癌における空間的トランスクリプトーム解析を用いた革新的がん免疫療法の開発
- ・ 胃癌における CLDN18.2 標的治療の治療抵抗性の解明
- ・ 空間トランスクリプトーム解析による胃癌免疫治療抵抗性の解明

II. 肝・胆膵領域における研究

- ・ がん幹細胞能維持と免疫回避微小環境を誘導する機構解明と新規治療法の開発
- ・ 膵神経内分泌腫瘍における YAP/TAZ を標的とした革新的新規治療戦略の開発
- ・ 肝前駆細胞マーカーNestin を標的とした混合型肝癌細胞に対する革新的治療戦略の開発
- ・ 膵癌微小環境における代謝リモデリング治療戦略の有効性の検討
- ・ Hippo シグナルに着目した膵癌の抗癌剤耐性機序の解明
- ・ 門脈圧亢進症における免疫制御機構の解明

III. 外科一般に関する研究

- ・ 消化器癌の発達・進展に関与する癌関連遺伝子の網羅的解析とバイオマーカー探索
- ・ 消化器癌における腸内細菌叢の解明
- ・ 革新的治療法開発を目指したサルコペニアと腫瘍免疫の統合的解析
- ・ 消化器癌における Patient-derived xenograft (PDX) model の開発と革新的治療戦略の開発
- ・ 癌代謝が消化器癌に及ぼす生理学的意義の解明
- ・ 消化器癌における癌関連繊維芽細胞の機能解明と制御、癌との相互作用に関する研究
- ・ 消化器癌における免疫制御機構の解明と新規治療法の開発

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【特殊技術・装置】

臨床：食道・胃・大腸癌に対する完全鏡視下手術、腹腔鏡下 肝・膵切除、ダヴィンチ Xi

特許：膵臓切離断端固定クリップ (特願 2019-050488)

基礎：DNA メチル化/遺伝子発現/代謝解析、遺伝子 Knock down/Overexpression、ゲノム編集 (CRISPR-Cas9 system)、切除検体由来癌関連線維芽細胞樹立、イメージング (BZ-X 蛍光顕微鏡, IncuCyte)、マウスモデル(移植：同所/異所, allogenic/syngenic, 発がん)、FlowCytometry/CyToF を用いた single cell 解析および sorting、三次元培養システム

【英文論文】

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