

<p>(形態機能病理学) 小田 義直 教授</p> <p>連絡先： oda.yoshinao.389@m.kyushu-u.ac.jp</p>	<p>研究内容 正常組織形態は、それを構成する種々の細胞の秩序だった増殖、分化、細胞死によって既定され、その恒常性の破綻は形態変化として反映される。本講座では、悪性固形腫瘍を中心に、病理診断法の開発、治療標的となりうる遺伝子変異、エピゲノム異常、遺伝子発現異常などの分子異常の解析、発癌機構および腫瘍進展機序の解明を行っている。 さらに、腫瘍組織を多彩な遺伝子異常をもった腫瘍細胞および様々な種類の非腫瘍細胞からなる不均一な細胞集団ととらえた腫瘍内多様性・腫瘍微小環境研究にも取り組んでいる。</p> <p>指導内容 (1) 診断病理学全般にわたる知識・技術の習得 (2) 遺伝子変異・エピゲノム・遺伝子発現異常の解析 (バイオインフォマティクス手法) (3) 悪性腫瘍の形態および分子異常の空間的解析 (画像解析) (4) 腫瘍細胞株の樹立とそれらを用いた治療標的の探索</p>
<p>Department of Anatomic Pathology</p> <p>Professor Yoshinao Oda</p> <p>E-mail: oda.yoshinao.389@m.kyushu-u.ac.jp</p>	<p>Research Interests Normal tissue morphology is determined by the orderly proliferation, differentiation, and cell death of various cells comprising the tissue, and disruption of this homeostasis causes morphological changes. With a focus on malignant solid tumors, our department covers the development of pathological diagnostic methods; analysis of molecular abnormalities, such as gene mutations, epigenetic abnormalities, and gene expression abnormalities, as potential therapeutic targets; and mechanisms of carcinogenesis and tumor progression. In addition, we will engage in research on intratumor diversity and the tumor microenvironment, considering the tumor tissue a heterogeneous cell population consisting of tumor cells with various genetic abnormalities and nontumor cells.</p> <p>Contents of Teaching/ Research Themes (1) Acquisition of knowledge and skills in general diagnostic pathology. (2) Acquisition of techniques for analyzing gene mutations, epigenomes, and abnormal gene expression (bioinformatics methods). (3) Spatial analysis of the morphology and molecular abnormalities of malignant tumors (image analysis). (4) Establishment of tumor cell lines and the identification of therapeutic targets using the cell lines.</p>