

## 分子腫瘍学 (佐藤 孝明)

### Molecular Oncology (SATO Taka-Aki)



SATO Taka-Aki Ph.D.  
 Director (Specially Appointed Professor)  
 R&D Center for Precision Medicine,  
 University of Tsukuba

E-mail address: sato.takaaki.fb@u.tsukuba.ac.jp  
 URL: <https://rdcpm.tsukuba.ac.jp/>



### プレジジョン・メディシンの社会実装を目指して

プレジジョン・メディシン開発研究センターは、我が国初の 1000 ドルゲノム解析研究を達成した拠点です。同センターでは、ヒト型汎用全自動ロボットと連携した最先端のゲノム解析システムや質量分析システムを用いて、科学的証拠に基づいたがんや様々な先天性代謝疾患等の病気の診断と発症メカニズムの解明を行います。当センターでは予防・先制医療研究の機能を兼ね備えた人間ドック「つくば予防医学研究センター」とも連携し、国内外の最先端の研究機関と共同研究を推進しながら、個人に最適の治療や薬の選択につながる「プレジジョン・メディシン（個別化精密医療）」の基盤研究とその社会実装を目指します。

### Aiming for Social Implementation of Precision Medicine

The Research and Development Center for Precision Medicine (PMC) was established as Japan's first omics analysis center aiming to develop a \$1000 genome sequencing technology. Using state-of-the-art technologies in genome sequencing and mass spectrometry, the Center aims to provide analytic and translational approaches to provide precise diagnosis of cancers and various diseases in a data-driven/evidence-based approach.

The Center has been working with the Tsukuba Preventive Medicine Research Center, which offers a comprehensive medical examination utilizing the function of initiative prevention of medical research. In order to promote collaborations with leading domestic and international research institutions, the PMC is also active in cross-border multidisciplinary networking.

The Center aims to establish a research infrastructure for the implementation and realization of Precision Medicine, to improve/determine the best course of treatment for each individual.

