Dr. Yasuhiro Tateishi (Research Fellow)

Research is focused on cytochrome P450 (P450) enzymes and their interactions with cytochrome b_5 (b_5). A fluorescent conjugate of a b_5 mutant has been useful in characterizing the interaction of P450 17A1 with b_5 , which is essential for the lyase activity of P450 17A1 (in androgen biosynthesis). Goals include structural analysis of the binding of b_5 and P450 17A1 and searches for selective inhibitors of the lyase reactions of P450 17A1, which may be useful in the treatment of prostate cancer. Interactions of b_5 with other P450s are also being studied.



