

# KIYOSHI YASUKAWA

## CURRICULUM VITAE



### 1. AFFILIATION

Family name: Yasukawa

First name: Kiyoshi

Birth date: 17/May/1959

Place of birth: Osaka, Japan

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### 2. ACADEMIC BACKGROUND

B. Sc.:Faculty of Biochemistry and Biophysics, School of Science,  
The University of Tokyo, awarded in March 1982

M. Sc.:Department of Biochemistry and Biophysics, Graduate School of Science,  
The University of Tokyo, awarded in March 1984

Ph. D.: Institute for Molecular and Cellular Biology, Osaka University,  
awarded in October 1989

### 3. PROFESSIONAL EXPERIENCE

August 2013–Present: Professor, Kyoto University

Study on the relationship between structure and function of enzymes

Developing of new methods for application of enzymes in food and medical technologies by  
generating new enzyme functions and controlling enzyme reactions

October 2004 –July 2013: Associate Professor, Kyoto University

Engineering of enzymes by protein engineering

July 1995–September 2004: Manager, Tosoh Corporation

Development of RNA-specific amplification method and intercalation activating  
fluorescence DNA probe and its application to homogeneous quantification of a  
target sequence by isothermal sequence amplification in a closed vessel.

April 1984 –July 1995: Researcher, Tosoh Corporation

(October 1984 –September 1987: Research Student, Osaka University)

Development of recombinant interleukin-6 (IL-6) receptor and IL-6 fusion protein  
and its application for ex-vivo expansion of hematopoietic stem cells<sup>2</sup>

## Original Papers :173

1. Okano, H., Baba, M., Kawato, K., Hidese, R., Yanagihara, I., Kojima, K., Takita, T., Fujiwara, S., and Yasukawa, K.: High sensitive RNA detection by one-step RT-PCR using the genetically engineered variant of DNA polymerase with reverse transcriptase activity from hyperthermophiles. *J. Biosci. Bioeng.* 125(3):275-281 (2018)
2. Takita, T., Qian, J., Geng, H., He, Z., Nemoto, S., Mori, M., Tanaka, K., Hattori, S., Kojima, K., and Yasukawa, K.: Comparative studies on the activities of collagenases from *Grimontia hollisae* and *Clostridium hystolicum* in the hydrolysis of synthetic substrates. *J. Biochem.* 163(5): 425-431(2018)
3. Okano, H., Baba, M., Hidese, R., Iida, K., Li, T., Kojima, K., Takita, T., Yanagihara, I., Fujiwara, S., and Yasukawa, K.: Accurate fidelity analysis of the reverse transcriptase by a modified next-generation sequencing. *Enzyme Microb. Technol.* 115:81-85(2018)
4. Nakatani, K., Katano, Y., Kojima, K., Takita, T., Yatsunami, R., Nakamura, S., and Yasukawa, K.: Increase in the thermostability of *Bacillus* sp. strain TAR-1 xylanase using a site saturation mutagenesis library. *Biosci. Biotechnol. Biochem.* 82(10): 1715-1723(2018)
5. Tsukiashi, M., Baba, M., Kojima, K., Himeda, K., Teisuke T., and Yasukawa, K.: Construction and characterization of ribonuclease H2 knockout NIH3T3 cells. *J. Biochem.* 165(3), 249-256(2019)
6. Takita, T., Nakatani, K., Katano, Y., Suzuki, M., Kojima, K., Saka, N., Mikami, B., Yatsunami, R., Nakamura, S., and Yasukawa, K.: Increase in the thermostability of GH11 xylanase XynJ from *Bacillus* sp. strain 41M-1 using a site saturation mutagenesis library. *Enzyme Microb. Technol.* 130, 109363
7. Nishimura, T., Baba, M., Ogawa, S., Kojima, K., Takita, T., Crouch, R. J., and Yasukawa, K.: Characterization of six recombinant human RNase H2 bearing Aicardi-Goutières syndrome causing mutations. *J. Biochem.* 166(6), 537-545(2019)
8. Nishimura, K., Higashiya, K., Ueshima, N., Abe, T., and Yasukawa, K.: Characterization of proteases activities in *Ficus carica* cultivars. *J. Food Sci.* 85(3), 535-544 (2020)
9. Ishizuka, K., Tsutsumi, Y., Baba, M., Biyani, R., Meng, C.W., Biyani, M., Takagi, M., Jaiswal, J., Sharma, B., Kojima, K., Takita, T., and Yasukawa, K.: Inhibition of HIV-1 reverse transcriptase activity by the extracts of Indian plants. *J. Biol. Macromol.* 20(1), 17-22(2020)
10. Baba, M., Kojima, K., Nishimura, T., Sugiura, T., Takita, T., Uehara, R., Crouch, R. J., and Yasukawa, K.: Val143 of human ribonuclease H2 is not critical for, but plays a role in determining catalytic activity and substrate specificity. *PLoS One* 15(2), e0228774(2020)
11. Juma, K. M., Kojima, K., Takita, T., Natsuaki, K., and Yasukawa, K.: Comparison of sensitivity and rapidness of PCR, recombinase polymerase amplification, and RNA-specific amplification for detection of Rice yellow mottle virus. *J. Biol. Macromol.* in press.