

Name of Technology	Prevention and inhibition of advancement of lifestyle-related diseases such as diabetes by food components such as polyphenols	Food
Name/Post/Faculty	Takashi Nagasawa / Professor / Biological Chemistry and Food Science Academic Group	
Key words	polyphenols, diabetes, lifestyle-related diseases	

What kind of technology is this?

Outline

Lifestyle-related diseases have been paid an attention as metabolic syndromes and all the country says that such diseases should be decreased. For such purpose, foods daily taken are important. In the present study, especially focusing on diabetes and dyslipidemia (hyperlipemia), we have obtained the results such as the inhibitory effect of the extracts of fruits produced in Iwate Prefecture on the occurrence of diabetic complications.

【Research output contents】

We found that rutin in buckwheat and some flavonoids in Japanese wild grape could inhibit the accumulation of advanced glycation end products (AGEs), which are involved in the occurrence of diabetic complications. Extract of Japanese wild grape containing high amount of flavonoids was prepared and is now under development for the practical applications. We are also studying on the effective components in other agricultural products in Iwate Prefecture.



Japanese wild grape
(Suzumimurasaki)



Extract powder of Japanese
wild grape

What are its applications?

Functional foods

Related patents	Japanese Patent Laid-Open No. 2007-131599
Related materials	yes