

# CHEMICAL & PHARMACEUTICAL BULLETIN

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About the cover: In solubility improvement of the poorly water-soluble drugs, the method for preparing solid dispersions using the water-soluble polymer is used. Generally, the dissolution rate of a drug increases when a solid dispersion is formed using a polymer as a carrier. We designed matrix particles of solid dispersion to slowly release acetaminophen by changing the mixture of acetaminophen and chitosan. X-Ray diffraction analysis showed that the typical drug crystallinity peaks were not detectable in matrix particles. The release rate of the acetaminophen was not dependent on the particle size but dependent on the properties of the carrier used in the matrix formation. Therefore, the gland of athletic sports was used in the background of the cover. See the article by Takahashi *et al.* on page 37 of this issue.

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