

## **Toyohiro TAGUCHI : Urinary Organic Solvent Concentrations as Indices in Biological Monitoring for Exposure to Organic Solvents**

This study was done to develop an improved method for collecting and preserving urine samples for the measurement of highly volatile organic solvents.

For the preservation of urine samples, it was found that cold storage of sample vials full of urine (no head space in the sample vial) was best. Also urine samples spiked with water-soluble  $\beta$ -cyclodextrin and hydroxypropyl derivative (2-HP- $\beta$ -CD) were preserved better.

A stable multi-component standard solution spiked with 2-HP- $\beta$ -CD was easily prepared for the determination of urinary organic solvents by gas chromatography.

An investigation of workshops using organic solvents revealed a significant correlation between the concentration of organic solvent exposure and organic solvents found in the urine. From the equation of the regression line between the concentration of organic solvent exposure and that of urinary organic solvents, the urinary organic solvent concentrations corresponding to the threshold limit value exposure could be calculated.

In the case of concentration of urinary organic solvents, the corrected values (by creatinine or specific gravity) of urinary organic solvent concentrations did not show more significant correlation with organic solvent exposure than the uncorrected observed value of urinary organic solvent concentration.

This study established a method for the collection and preservation of urine samples for the measurement of volatile organic solvents in the urine, and showed the significant correlation between the concentration of organic solvent exposure and urinary organic solvent concentrations.

## **Sanae TAKEMURA : Death in Milton (3) Part II — A Comparison of *An Epitaph on the Marchioness of Winchester* with Jonson's *An Elegy* —**

This second of a two-part study discusses Milton's view of Lady Jane and the images in his *An Epitaph on the Marchioness of Winchester*. Then his *Epitaph* and Jonson's *Elegy* on the same lady are compared for general tone, images and the idea of death and of praise.

## **Hiromitsu MIHARA, Hajime TABUCHI and Hirokazu TOYAMA : A Study on the Family of the Mentally Retarded Persons**

This study was done to analyze the situation of the parents of mentally retarded persons.

It became clear through the research that the parents of mentally retarded persons have a good relationship with the siblings of the mentally retarded persons. Even though care of the mentally retarded persons was difficult and created many problems, further research is needed to find ways to help families who have a mentally retarded member.