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**The science community looks closer – *and gives greater support* –
to oral intake of Glutathione.**

The most advanced study on KOHJIN Glutathione™ to date is published
in the ACS Journal of Agricultural & Food Chemistry

It's no small thing for scientists, trained in skepticism, to express supreme confidence that the 50 years they and their fellow researchers put into developing and refining an essential nutritional ingredient has culminated in definitive proof of beneficial effects from Glutathione (GSH) by oral administration. It's a *defining moment* when that proof is upheld by a board of their peers, as the American Chemical Society did this May with its publication of the study "Increase in the Protein-Bound Form of Glutathione in Human Blood after the Oral Administration of Glutathione" in the prestigious, peer-reviewed Journal of Agricultural & Food Chemistry.

From the laboratories at KOHJIN Life Sciences, researchers produced a groundbreaking report demonstrating mitochondrial biogenesis associated with the ingestion of Glutathione. The report, first announced at the International Union of Nutritional Science conference in Grenada, Spain last fall, and reintroduced at SupplySide West in November, was now being presented by an authoritative body as evidence, where before it remained in the realm of assertion.

A half century ago, when KOHJIN created the patented process by which they derive their L-Glutathione from Torula yeast, a medium capable of yielding a product of unvarying purity and consistency, researchers were aware of three irrefutable characteristics: it was safe to use, had shown promise in ridding the system of toxins, and it visibly lightened the tone and improved the vitality of the skin. These factors, combined with the trusted reputation the company enjoyed even then, made the inclusion of this unsung major redox couple in supplements and personal care products of all sorts inevitable. And so it has been in Asia, where oral supplementation of GSH has been in practice for decades, and indeed it's what has made KOHJIN the world's largest-selling manufacturer of L-Glutathione.

While the medical community at large knew the tripeptide was omnipresent in the human body and in fact served to regulate all cell activity, it publicly recognized no correlation between wide use in supplements and the naturally occurring form in every living cell. The issue was observation, or more clearly lack of it, in the deproteinized fraction of blood plasma in human subjects after oral intake of GSH. That is, until KOHJIN researchers, in cooperation with a team

from Kyoto Prefectural University led by Dr. Kenji Sato, examined plasma fractionated on the basis of molecular mass from human volunteers, where they discovered GSH in the protein-bound fraction of the plasma. Animal models indicated the same result, where ¹³C-labeled GSH showed its presence in the liver, at levels of 8% or more, in as little as two hours after one dose.

The response to recognition by the American Chemical Society, the most esteemed chemical research organization in the world, has naturally caused a stir among interested parties proportionate to the breathtaking sweep of the study itself. The possibilities for GSH supplementation, in helping the body's ability to replenish and invigorate cellular activity and support rigorous physical exertion, are limitless.

Read the ACS publication of KOHJIN Life Sciences Laboratories momentous study [<http://pubs.acs.org/doi/abs/10.1021/jf501338z>].
And please visit [<http://www.kohjinls.com/en/>] to learn more.