



中国科学院生物物理研究所

## 贝时璋讲座

# Autophagy-adaptors regulate cellular metabolism through multiple transcription-factor pathways

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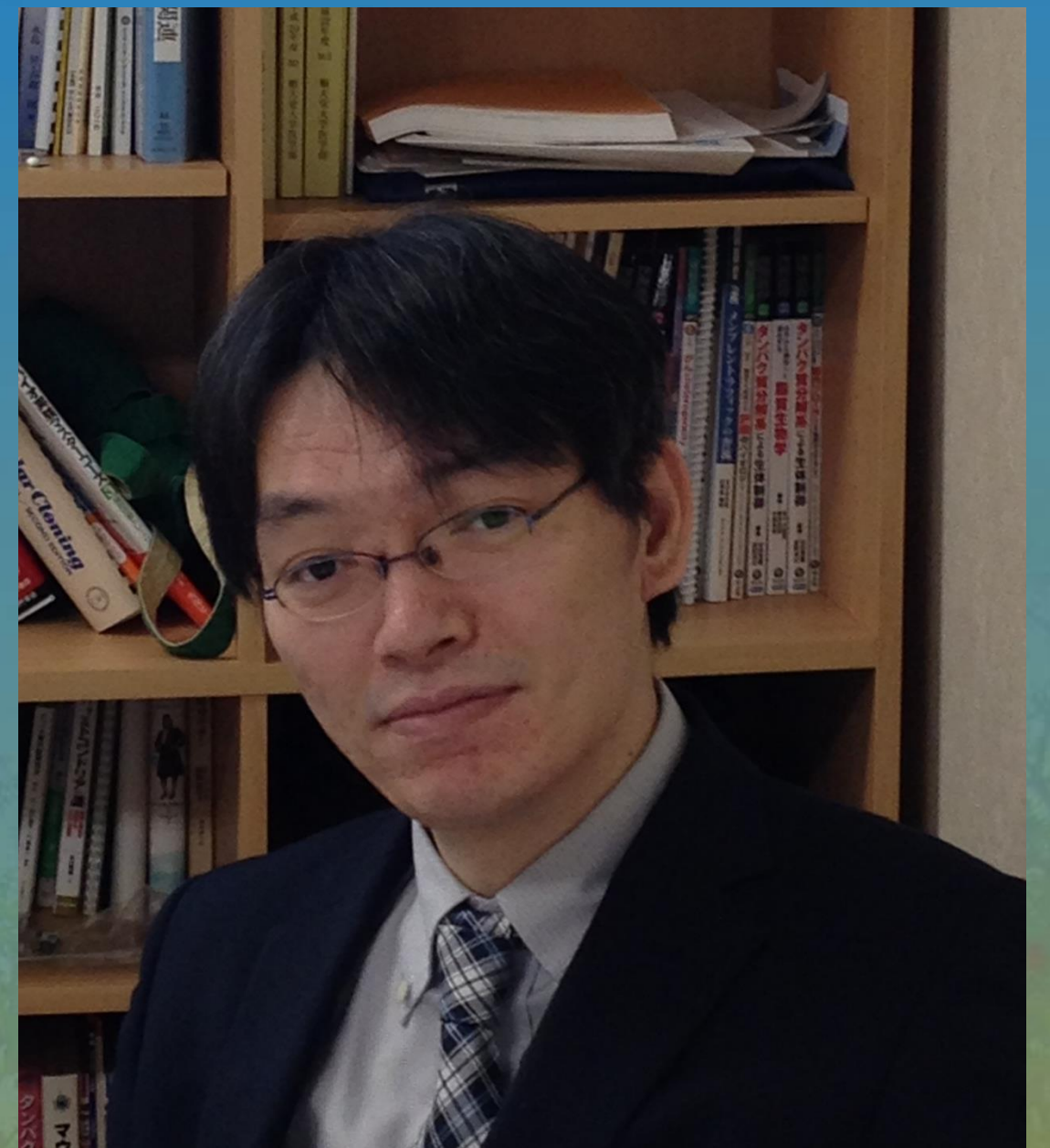
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主持人：张宏研究员

## 报告人简介

Dr. Masaki Komatsu is a professor of Niigata University. The metabolic changes associated with deficiencies in autophagy are largely unknown. Dr. Masaki Komatsu's work shows that deficiencies in autophagy are associated with rearrangement of glucose and lipid metabolism via multiple transcriptional regulatory mechanisms.



## 代表成果

1. Ichimura, Y., ..., Komatsu, M. Phosphorylation of p62 activates the Keap1-Nrf2 pathway during selective autophagy. *Mol Cell* 51: 618 (2013)
2. \*\*Takamura, A., \*\*Komatsu, M., et al. Autophagy-deficient mice develop multiple liver tumors. *Genes Dev* 25: 795 (2011)
3. \*Komatsu, M., et al. The selective autophagy substrate p62 activates the stress responsive transcription factor Nrf2 through inactivation of Keap1. *Nat Cell Biol* 12: 213 (2010)
4. Komatsu, M., et al. Homeostatic levels of p62 control cytoplasmic inclusion body formation in autophagy-deficient mice. *Cell* 131: 1149 (2007)
5. Komatsu, M., et al. Loss of autophagy in the central nervous system causes neurodegeneration in mice. *Nature* 441: 880 (2006)