

MEETING ABSTRACT

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Multi-parameter systematic strategy opinion that predicts, prevents, and personalized treats a cancer

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Cancer is a complex whole-body disease that alters in the levels of gene, protein, and metabolite, and that involves multi-factors, multi-processes and multi-consequences. Individual variation is involved in each stage of prediction/prevention, early-stage diagnosis/therapy, and late-stage diagnosis/therapy. The development of omics and systems biology has promoted one to gradually change paradigms in oncology from traditional single factor strategy to multi-parameter systematic strategy. The therapeutic model of cancer has changed from the general radiotherapy and chemotherapy to personalized strategy. The development of PPPM will substantially change the understanding, prediction, prevention, and therapeutic model of cancer from a systematical and comprehensive point of view in the future.

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References

1. Hu R, Wang X, Zhan X: Multi-parameter systematic strategies for predictive, preventive and personalised medicine in cancer. *EPMA J* 2013, **4**:2.

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2. Zhan X, Desiderio DM: The use of variations in proteomes to predict, prevent, and personalize treatment for clinically nonfunctional pituitary adenomas. *EPMA J* 2010, **1**:439-459.
3. Golubnitschaja O, Costigliola V, EPMA: General report & recommendations in predictive, preventive and personalised medicine 2012: white paper of the European Association for Predictive, Preventive and Personalised Medicine. *EPMA J* 2012, **3**:14.

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