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**Cover** In this issue, thousands of longitudinally measured chemical and biological components along with physical factors in the personal exposome cloud were investigated for their impact on internal -omes, such as the proteome, metabolome, gut microbiome, as well as cytokines and blood markers. On the cover, the dynamic and diverse exposomics profile is depicted as a mixture and its complex interactions with the gut microbiome and internal biomolecules in various organs is illustrated. These potential gene-environment interactions elucidate how the exposome shapes human phenome and impacts precision health. (Cover artwork by Lettie McGuire [<https://lettie McGuire.com>]. [For details, see Gao et al., pp. 1199–1214.]