

1 **HIGHLIGHTS**

- 2 • Updated review (2017-2020) of untargeted metabolomics strategies applied on food field
- 3 • Advances in LC, GC and HRMS greatly contributed to food (bio)markers research
- 4 • Trends and future of HRMS-based untargeted metabolomics strategies are discussed
- 5 • Applications on food processing, food intake and food health effects are reviewed