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Canola protein digestion studied by SAS and Neutron Imaging

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Proteins, as elements of the ingested food, can form structures at multiple spatial scales. We studied digestion of canola protein heat-set gels and monitored their structure by SANS (LLB), SAXS (Synchrotron Soleil) and Neutron Imaging (PSI). SANS coupled with Neutron imaging provided information about digested "real-like"foods on nm (local protein re-arrangements) and µm scale (large aggregates destruction), while in-situ capillary SAXS complemented SANS,showing complexity of protein digestion

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