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Summary

PROTEOMIC CHARACTERIZATION OF SERUM EXTRACELLULAR VESICLES FROM NEWLY DIAGNOSED PATIENTS WITH INFLAMMATORY BOWEL DISEASE

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IBD

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Proteomic analysis of serum extracellular vesicles from 100 newly diagnosed IBD patients identified differential protein profiles between Crohn's disease, ulcerative colitis, and healthy controls, with proteins involved in immune pathway dysregulation.

KEY POINTS

- EVs isolated from 50 CD patients, 50 UC patients, and 50 healthy controls revealed 1,100 total proteins, with 105 differentially expressed in CD versus controls, 111 in UC versus controls, and 32 between UC and CD.
- Proteins carried in EVs are involved in dysregulation of immune pathways including acute phase response, LXR/RXR activation pathway, and complement pathway, with differential regulation between IBD patients and healthy controls.
- Comparison of UC versus CD showed upregulation of nuclear receptors signaling and cytotoxicity pathways, indicating distinct EV protein profiles between the two IBD subtypes.
- The authors conclude that EVs may play a role in IBD pathogenesis and could serve as biomarker candidates for diagnosis in UC and CD, though further studies are warranted.

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