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Summary

TRANSCRIPTOMIC ANALYSIS REVEALS DIFFERENTIAL EXPRESSION OF OXIDATIVE STRESS PATHWAYS IN CROHN'S DISEASE PATIENTS

Madeleine Bezault

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Transcriptomic analysis of ileal mucosa from 196 Crohn's disease surgery patients identified oxidative stress pathway signatures associated with post-operative recurrence patterns at 6 months.

KEY POINTS

- No individual genes were differentially expressed between remission and recurrence groups at surgery (M0) or 6 months post-surgery (M6).
- Using pathway enrichment analysis at M6, 40 of 1766 significant pathways related to oxidative stress were predominantly overexpressed in the recurrence group.
- Unsupervised signature generation identified 8 oxidative stress pathways that were upregulated at M6 in recurrence patients and at M0 in remission patients.
- The findings suggest oxidative stress pathways may play a role in post-operative Crohn's disease recurrence, though further research is needed to identify therapeutic targets.

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