

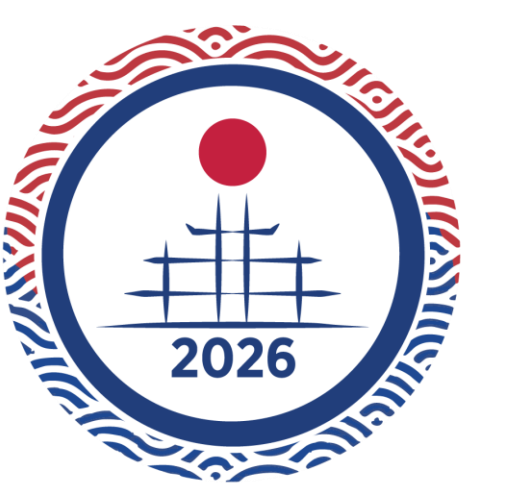


EP 06.20: Inflammatory and Oxidative Stress Biomarkers in Lung Cancer Patients at a Nigerian Tertiary Hospital

Blessing Erinwusi¹, K. Oyebola¹, O. Kayode¹, A. Egwuenu², A. E. O. Oboh³, S. Adeniran¹, C. Egwuenu⁴

¹Mountain Top University, ²Nigeria Field Epidemiology and Laboratory Training Programme, Abuja/NG, ³University of Benin Teaching Hospital, Benin City/NG, ⁴Move Against Cancer Africa

Correspondence: erinwusiblessing@gmail.com



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INTRODUCTION

- Inflammation, oxidative stress, and metabolic alterations contribute to lung cancer development and progression.
- Circulating biomarkers such as IL-6, TNF- α , CRP, MDA, SOD, and catalase may reflect these systemic processes, but their clinical utility can vary with disease stage and other patient factors.
- Evidence from Nigerian patients remains limited, supporting further characterization of these biomarkers in this population.

STUDY AIM

To evaluate circulating inflammatory, oxidative stress, and selected metabolic biomarkers in patients with histologically confirmed lung cancer in Nigeria.

METHODS

Pilot case-control study: 7 histologically confirmed lung cancer patients and 7 age-/sex-matched controls.

Plasma was analysed for inflammatory biomarkers (CRP, IL-6, IL-8, TNF- α ; ELISA), oxidative stress markers (MDA/TBARS, SOD, CAT; spectrophotometry), and selected metabolic/organ-function parameters (enzymatic/colorimetric assays). Mann–Whitney U test; $p < 0.05$.

DISCUSSION AND CONCLUSION

Actionable Take Away Message

- This pilot study provides preliminary evidence of altered inflammatory and oxidative stress biomarker profiles among lung cancer patients in a Nigerian cohort.

Our NEXT STEP

- To investigate this evidence further in larger cohort and more centers in Nigeria and West Africa.

REFERENCES & ACKNOWLEDGEMENTS

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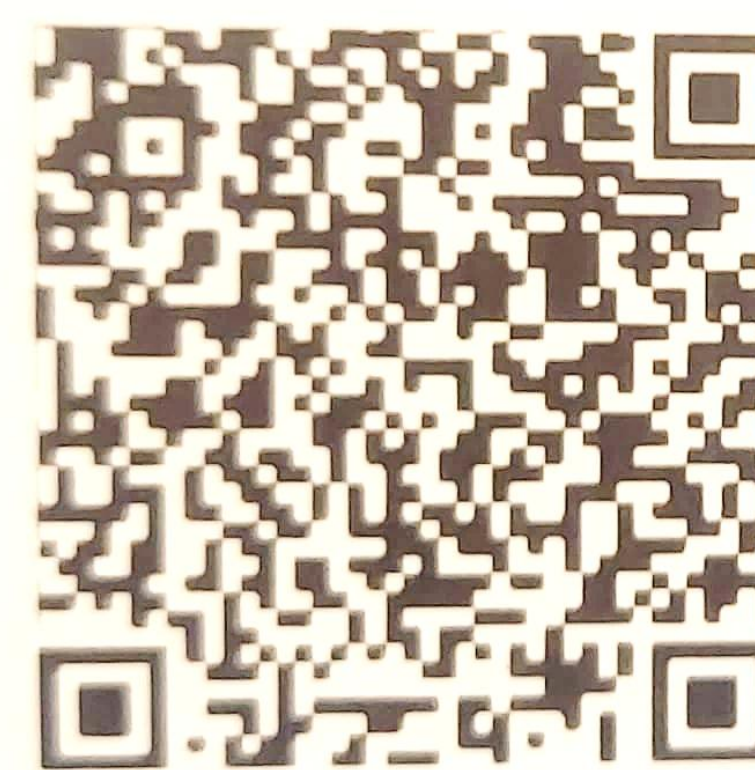
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RESULTS

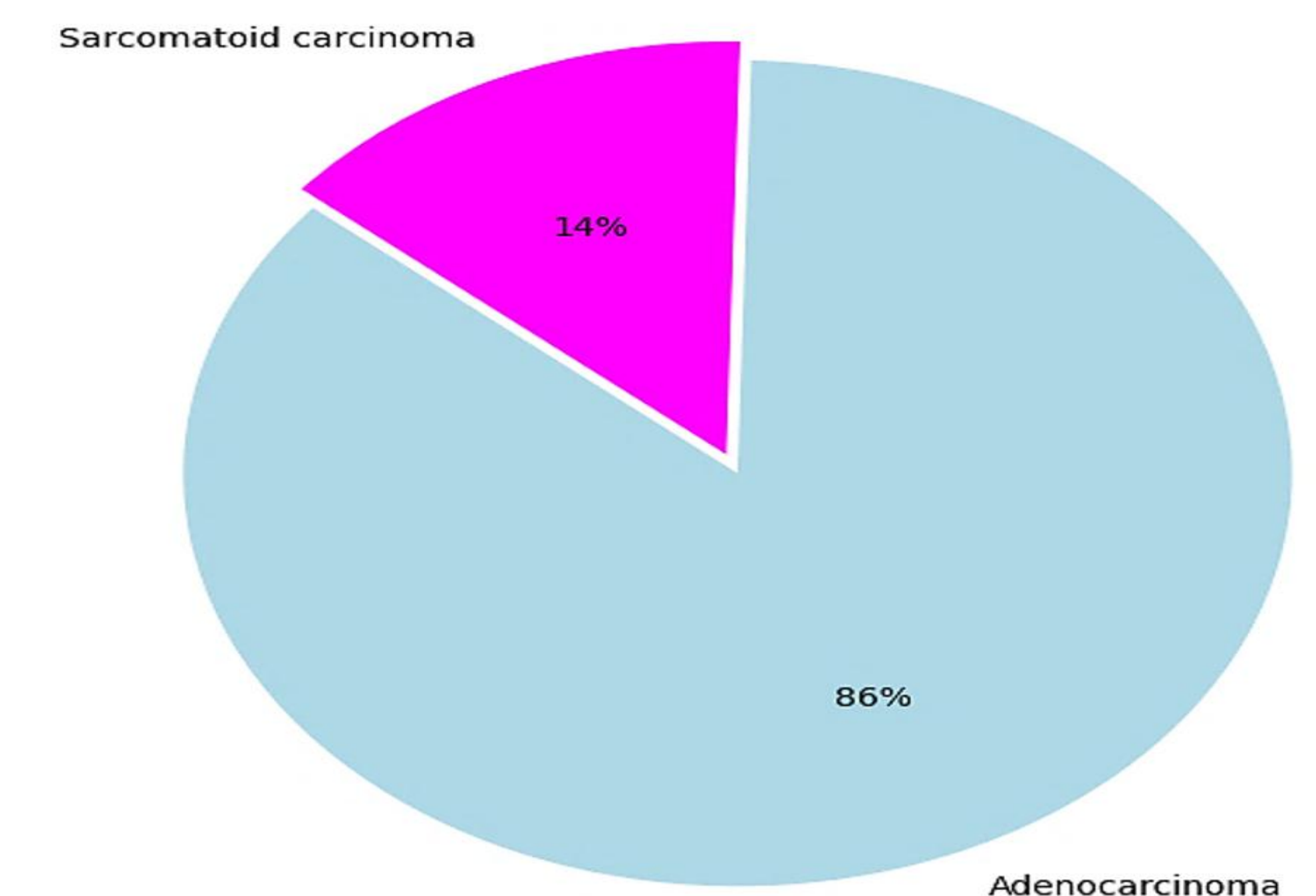


Fig. 1: Histological subtype distribution among lung cancer cases

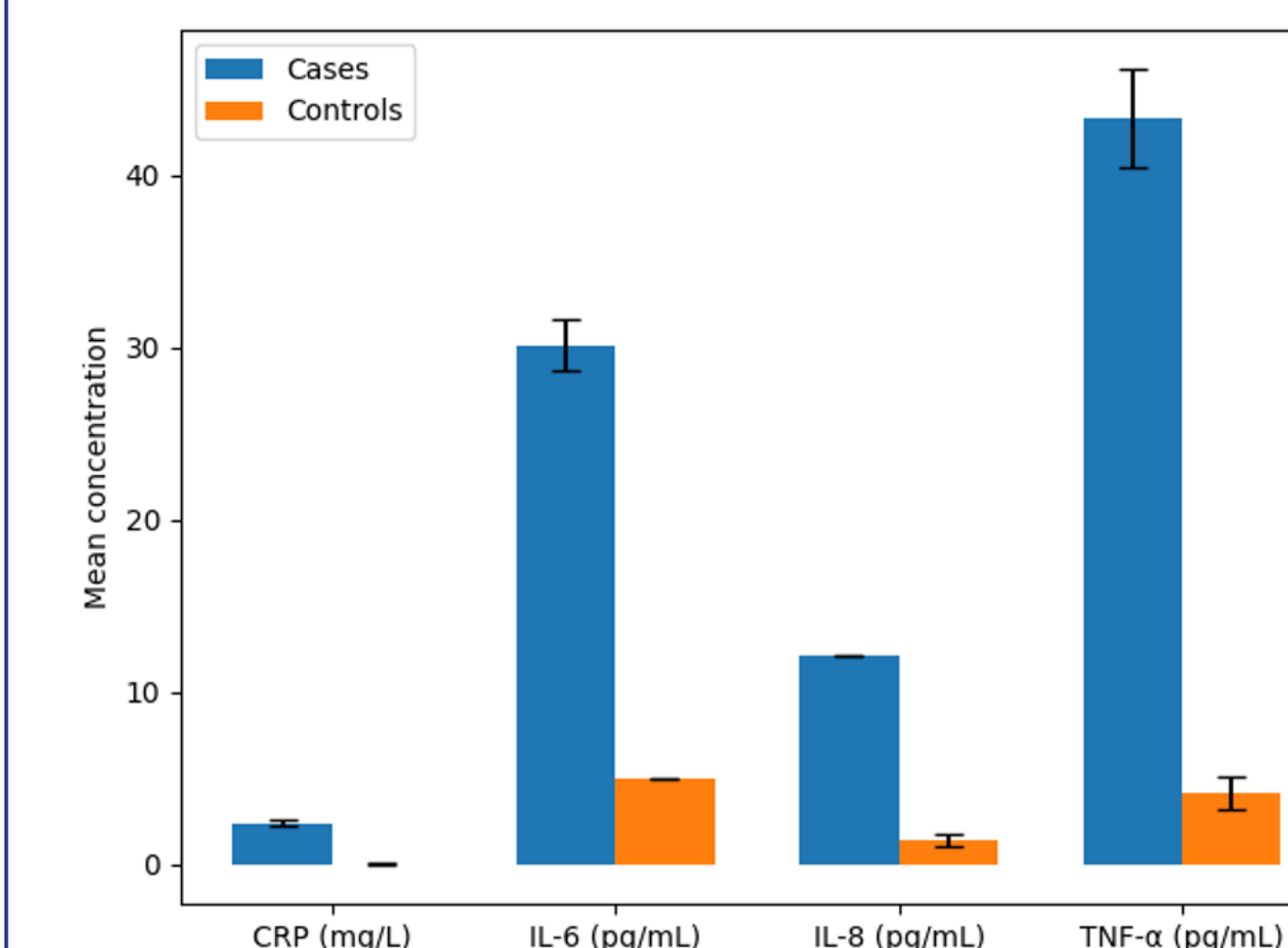


Fig. 2: Elevated Circulating Inflammatory Biomarkers in Lung Cancer

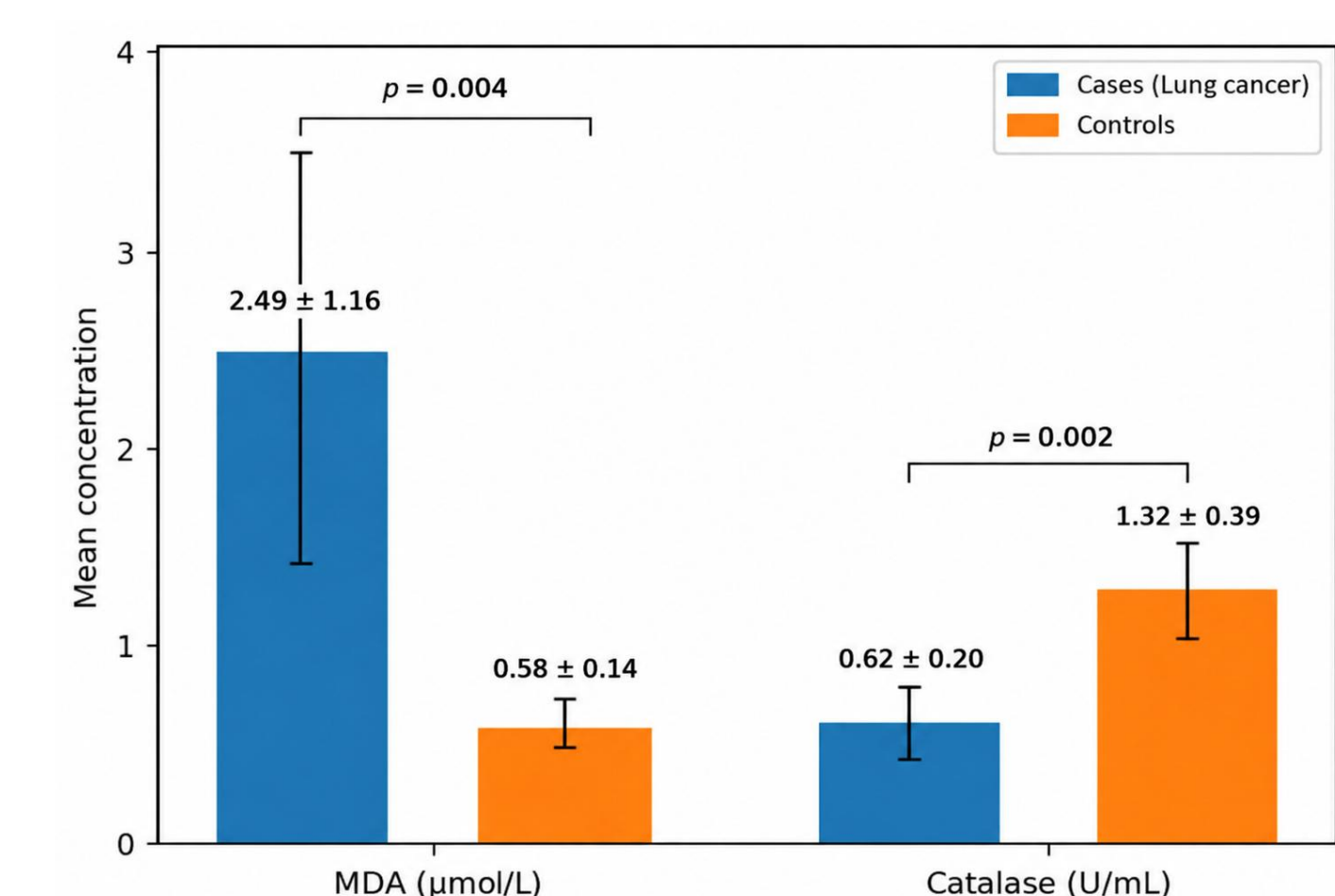


Fig. 3: Altered Oxidative Stress Biomarkers in Lung Cancer

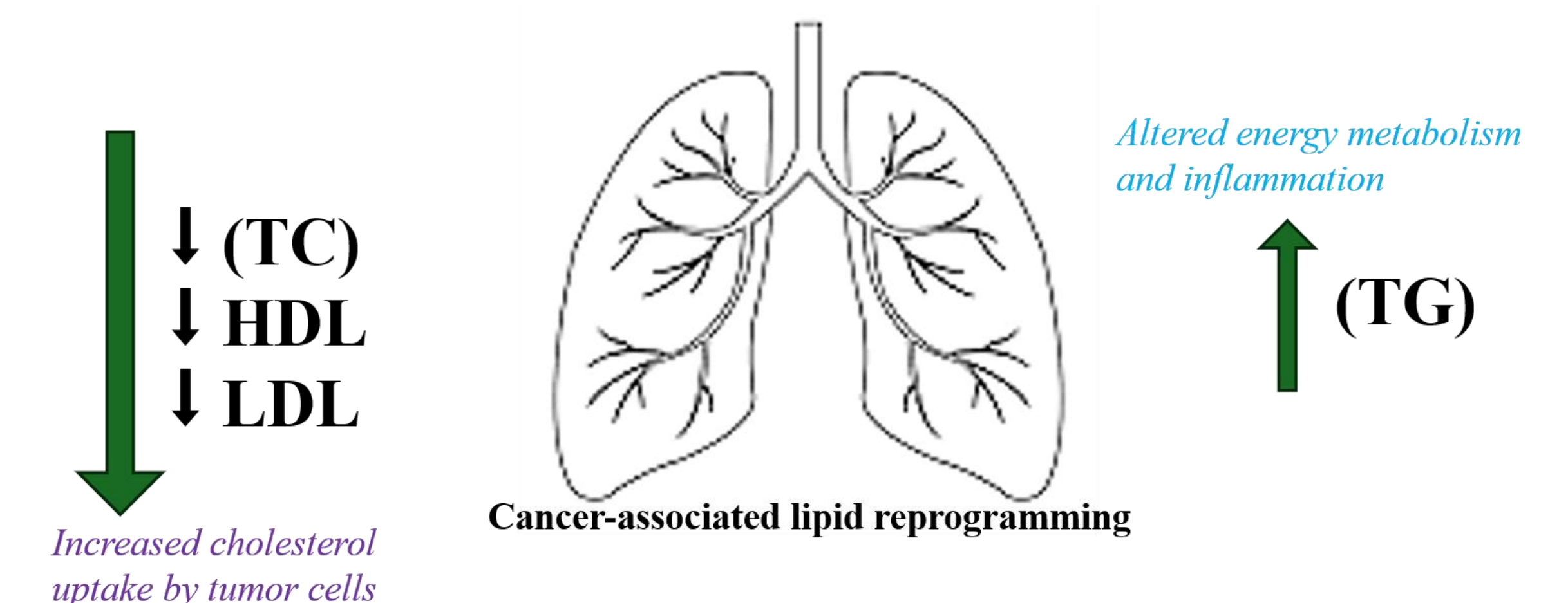


Fig.4:Cancer-associated lipid reprogramming