

高脂血症治療薬のベザフィブラーが (BEZ) は、 β 酸化酵素の遺伝子の上流にあるプロモーターであるペルオキシソーム増殖因子活性化受容体 (PPAR) を刺激して β 酸化酵素の遺伝子の転写を促進して、酵素量を増やすことによって β 酸化障害を改善する可能性がある。今回の研究によって β 酸化異常症の細胞の残存活性が回復することが示された。

本研究によって、インフルエンザ脳症や小児の後天的要因に基づく急性脳症が、発熱ストレスや使用される解熱剤、或いは細菌毒素による β 酸化障害が関与している可能性を示された。また β 酸化を改善させる薬剤によって、急性脳症の予防、重篤化予防に役立つ可能性がある。

E. 結論

インフルエンザ脳症など小児の急性脳症発症に、後天的要因による β 酸化障害が何らかの関与をしている可能性がある。 β 酸化に影響を与える因子として、発熱ストレス、サイトカイン、使用される解熱剤等の薬剤、細菌の毒素などがあげられる。また β 酸化障害を緩和する因子としてベザフィブラーのような薬剤、或いは低温環境も考えられる。

F. 研究発表

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G. 知的財産権の出願・登録状況

1. 特許取得

該当なし

2. 実用新案登録

該当なし

3. その他

該当なし

Ⅱ. 研究成果の刊行に関する一覧表

研究成果の刊行に関する一覧表レイアウト

雑誌

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