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- 2-2 藤巻秀和、宇井直也、遠藤朝彦：ディーゼル排気暴露による NC/Nga マウスの免疫応答修飾。 第 41 回大気環境学会 2000；263
- 2-3 藤巻秀和、宇井直也、遠藤朝彦：大気汚染物質暴露によるマウスケモカイン産生の亢進。 第 41 回大気環境学会 2000；264.
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G. 英文アブストラクト

Effect of diesel exhaust on cedar pollen-induced immune response in mice

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To clarify the relationship between induction of cedar pollinosis and inhalation of diesel exhaust, the effects of whole diesel exhaust (DE) and diesel gas exhaust (Gas) excluding particulate matters on cedar pollen-induced immune response were investigated. Exposure to DE or Gas for 5 weeks in BALB/c and C57BL/6J mice immunized with sugi basic protein induced inflammatory cells in lung lavage fluid, but there is no significant induction at cytokine and chemokine levels. Cell proliferative response in cervical lymph node cells from mice exposed to DE and Gas was increased. Interleukin -5 and monocyte chemoattractant protein-1 production were significantly greater in cervical lymph node cells from DE-and Gas-exposed mice than it was in the control. Different pattern of cytokine and chemokine production in cervical lymph node cells from different strain of mice was induced by exposure to DE and Gas.

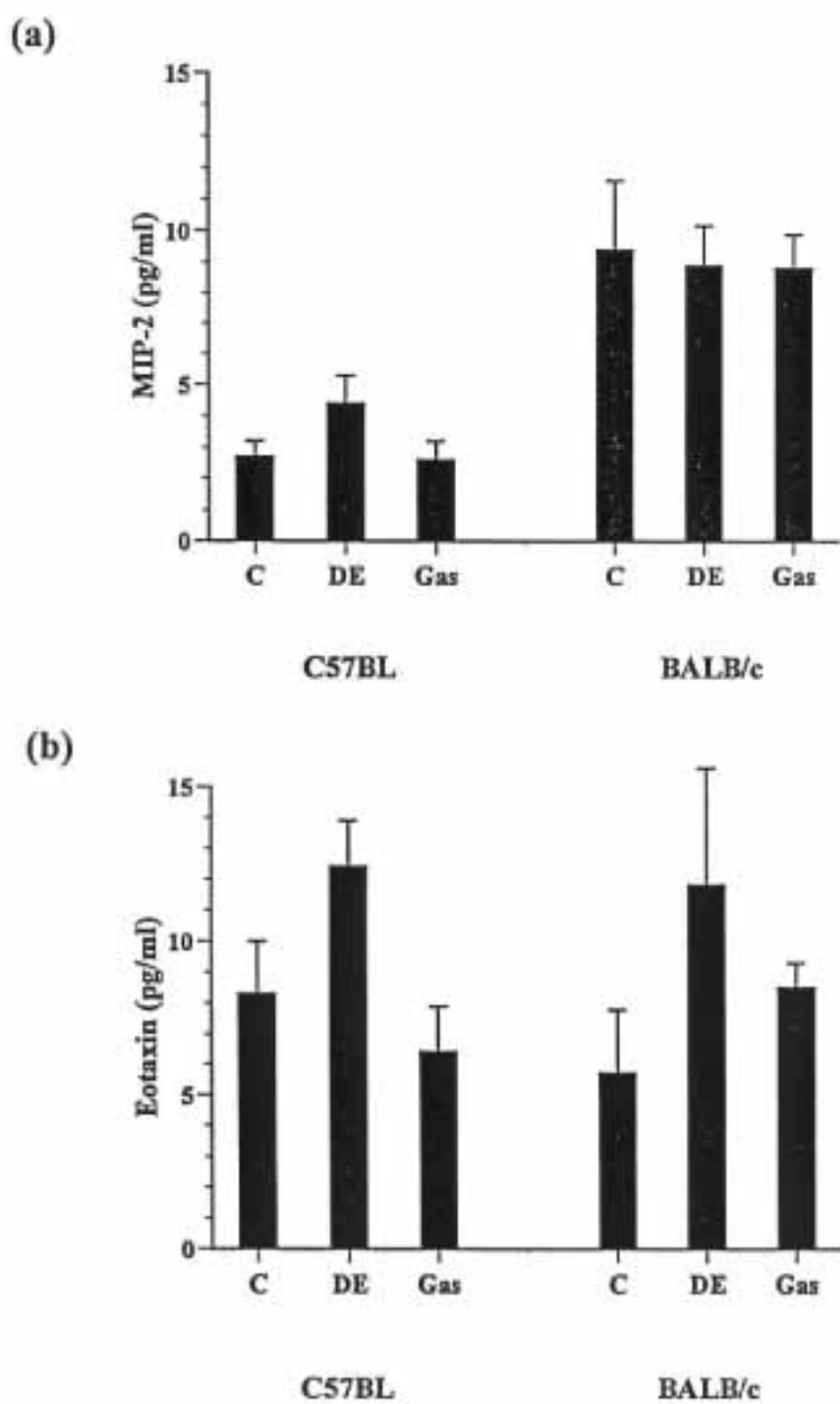


図1 SBP 点鼻投与と DE 暴露、Gas 暴露したマウスの肺胞洗浄液中の(a)MIP-2、(b)Eotaxin 産生

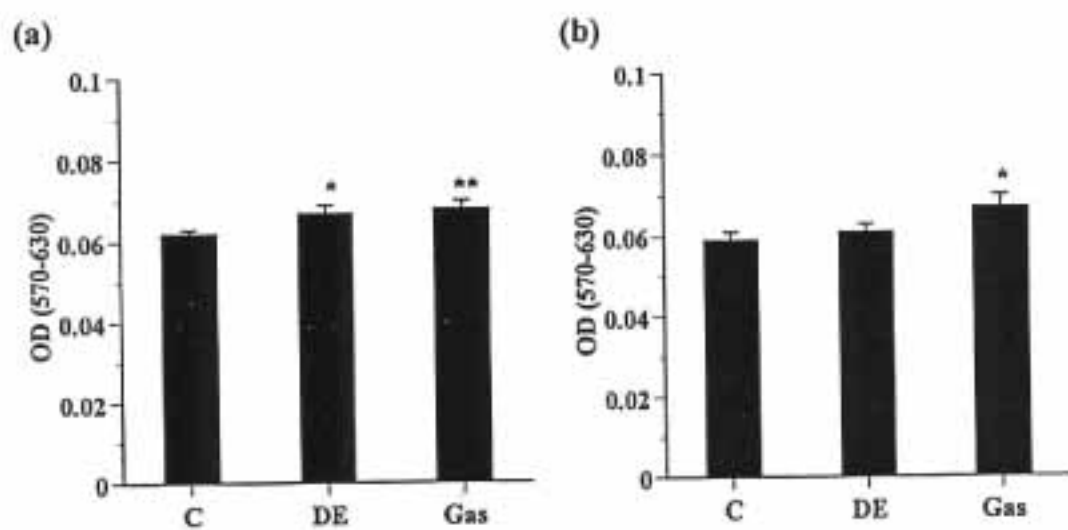


図2 DE暴露、Gas暴露した(a)BALB/cと(b)C57BL/6JマウスにおけるSBP特異的リンパ節細胞の増殖反応