

**EFFECTS OF ENVIRONMENTAL AIR POLLUTION
ON THE IMMUNE SYSTEM**

ESSAY

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By

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قَالُوا سُبْحَانَكَ لَا عِلْمَ لَنَا إِلَّا مَا
عَلَّمْتَنَا إِنَّكَ أَنْتَ الْعَلِيمُ الْحَكِيمُ
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LIST OF ABBREVIATIONS

AFC	Antibody forming cell
ALAD	Aminolevulinate dehydrase
ANA	Antinuclear antibody
APC	Antigen presenting cell
BAL	Broncho-alveolar lavage
BLLs	Blood lead levels
CO	Carbon monoxide
COA	Concana valin A
COHb	Carboxy hemoglobin
CSC	Cigarette smoke condensate
DPPC	Diplamitoyl phosphatidyl chlorine
EEC	European Energy Council
EPA	Environmental protection agency
F-HSA	Formaldehyde-human serum albumin
FGF	Fibroblast growth factor
G ₆ PD	Glucose 6 phosphate dehydrogenase
GM-CSF	Granulocyte macrophage-colony stimulating factor
H ₂ O ₂	Hydrogen peroxide
HCHO	Formaldehyde
HCHO-HSA	Formaldehyde-human serum albumin
HLA	Human leukocyte antigen
HMPS	Hexose monophosphate shunt
Hr	Hour
Ig	Immunoglobulin
IL	Interleukin
IM	Interstitial macrophages
LAK	Lymphokine activated killer
LPS	Lipopolysaccharide

MAF	Macrophage activating factor
MØ	Macrophage
NK	Natural killer
NO	Nitrogen monoxide
NO ₂	Nitrogen dioxide
O ₃	Ozone
OH	Hydroxyl radical
PAH	Phytohemagglutinin
Pb	Lead
PBL	Peripheral blood leukocytes
PBMC	Peripheral blood mononuclear cells
PbO	Lead oxide
PCi/L	Pico Curie/liter
PGE ₂	Prostaglandin E ₂
PMNs	Polymorphonuclear neutrophils
PNLs	Polymorphonuclear leukocytes
PPb	Part per billion
PPm	Part per million
PVC	Polyvinyl chloride
PWM	Pokeweed mitogen
S-RBCs	Sheep-red blood cells
T _c	T-cytotoxic
T _H	T-helper
TNF	Tumor necrosing factor
UV	Ultraviolet
VOCs	Volatile organic compounds
WBC	White blood cell
Wk	Week
WL	Wave length
WSC	Water soluble condensate

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