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**Studies on the Effects of
Peptidyl Plant Growth Factor Phytosulfokine on
the Proliferation of Carrot Cultured Cells**

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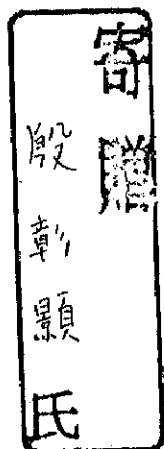


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Abbreviations

aa : amino acids

bp : base pair(s)

CM : conditioned medium

CDKs : cyclin-dependent protein kinases

CMFs : CM factors

cv. : cultivar

DAPI : 4',6-diamidino-2-phenylindole

2,4-D : 2,4-dichlorophenoxyacetic acid

DNA : deoxyribonucleic acid

DW : distilled water

ED₅₀ : concentration of the active compound required for 50% mitogenic activity on the 6th day of culture

ELISA : enzyme-linked immunosorbent assay

FCM : flow cytometry

GA : gibberellin

HPLC : high-performance liquid chromatography

IAA : indol-3-acetic acid

IGF-II : insulin-like growth factor-II

LRR : leucine-rich repeat

MAPkinase : mitogen-activated protein kinase

MS medium : Murashige and Skoog's medium

NAA : naphthaleneacetic acid

PBS : phosphate-buffered saline
PBST : PBS containing Tween-20
PCR : polymerase chain reaction
PCV : packed cell volume
PGRs : plant growth regulators
PP-PSK : preprophytosulfokine
PSK- α : phytosulfokine- α
PSK- β : phytosulfokine- β
PVP : polyvinylpyrrolidone
RACE : rapid amplification of cDNA ends
RALF : rapid alkalization factor
RNA : ribonucleic acid
rpm : revolutions per minute
RT-PCR : reverse transcribed-PCR
SI : self-incompatibility
TEs : tracheary elements
TGF- β : transforming growth factor β
xg : centrifugal force (x unit gravitational field)