

21

21
(life-cycle),

(NRC) “

(Fusion Technology)

가

가

가

가

가

가

가

가

가가

가 ,

. Bio Material, Mechatronics, DNA Chip

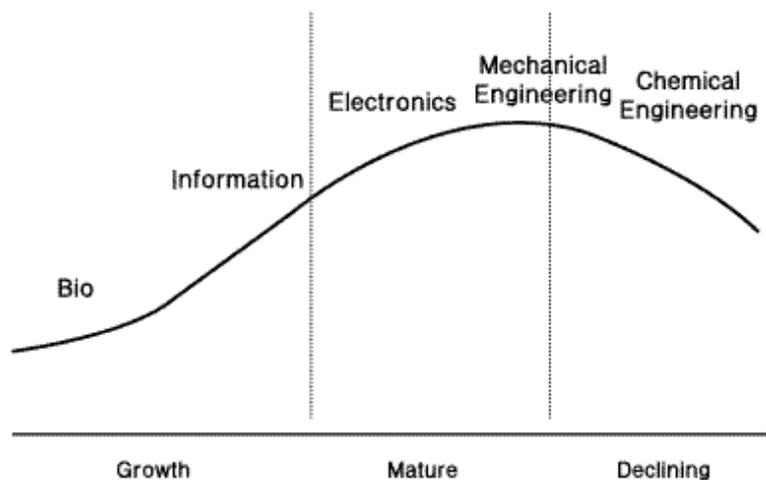
가 가

가 , (Emerging + Emerging Technology), (Emerging + Existing Technology), (Existing + Existing Technology)

(Technology Life Cycle)

(Growth) , IT(Information Technology), BT(Bio Technology), NT(Nano Technology) , Bio-informatics (+)가 .

< (Technology Life Cycle)>



(Growth) (Mature), (Declining) ,
 Biotronics(+)가 .
 (Mature), (Declining) 20
 (+)가 가
 (+)가 .

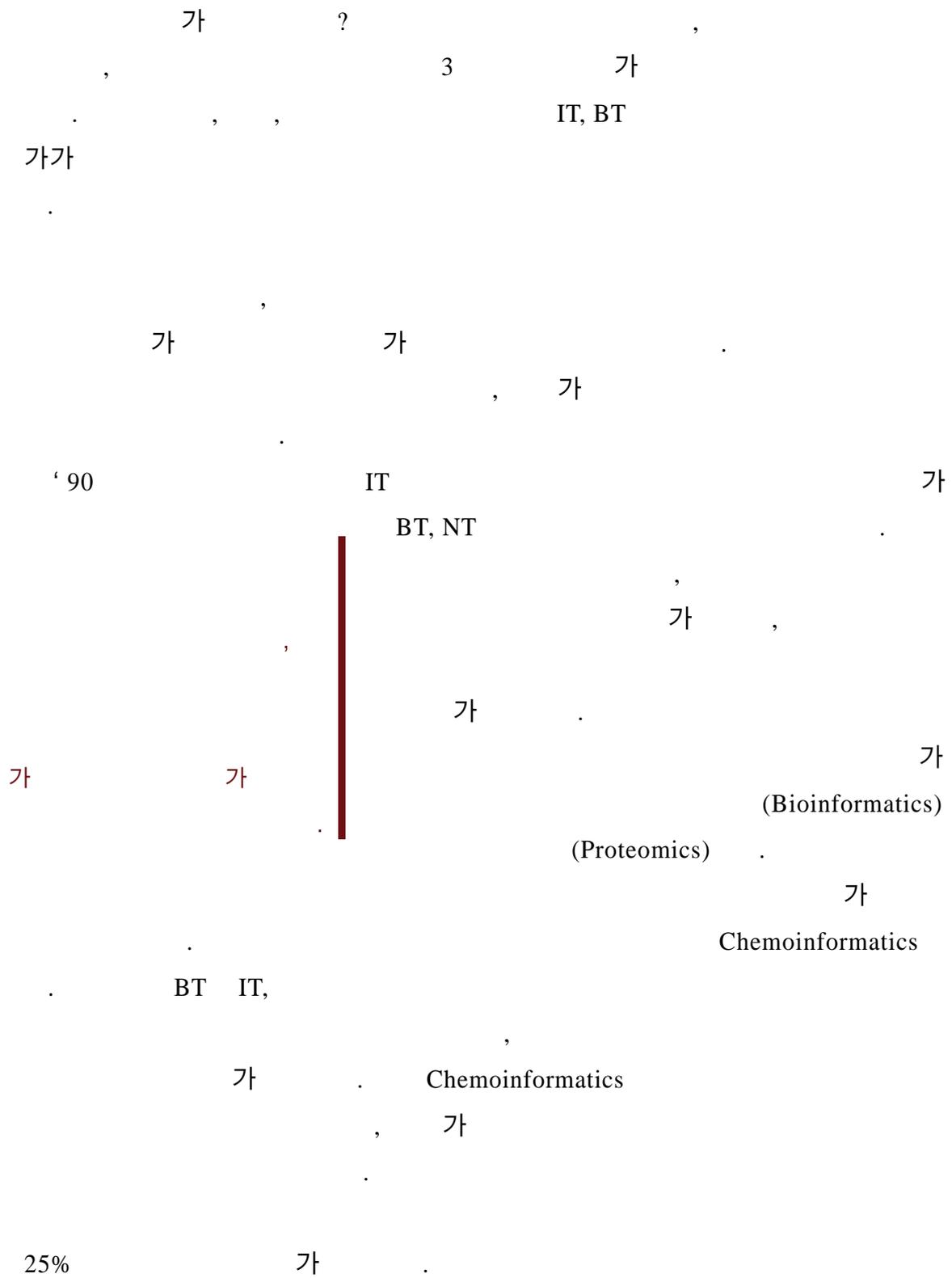
1.

. 1990 (Human Genome Project)
 , IT BT 가
 (Bioinformatics), (Genomics), (Proteomics),
 (Bio Chips) IT BT
 , , , , ,
 , 가
 BT IT
 , IBM “ IT ”
 . Motorola, HP, Hitachi IT
 , BT
 . Motorola Compugen
 , HP Affymetrix, Rosetta DNA Chip
 Scanner . Hitachi

IT
가

3.

가 , (Internet
Car) 가
가 ,
가
가 , TV, PC
,"C&C(
)
가 - 2 ,3 가
(MEI Technology) 가
(MEI)



가
가

(Photonics)

10 가 (BT), (NT) (IT),

(IT), (BT), (NT) 21 . 2 1 가 .

가 NT BT IT

IT NT

가 R&D

가 가 , EU National Nano-
technology Initiative(NNI) 가
가 가

R&D . ' 90 가 , R&D
 . ' 가 (Acquire
 and Develop) ' (A&D), '
 , (Connect and Develop) ' (C&D)
 .
 .
 (Technology Roadmap), (Technology
 Portfolio) 가 .
 가 , 가 (無限加速)
 ,
 .
 가
 .
 ,
 (Complementary Assets)
 , 가
 . 21
 ,
 IT, BT, NT
 가 . 