

6 NF- κ B的发现

Singh H, Sen R, Baltimore D, Sharp PA. A nuclear factor that binds to a conserved sequence motif in transcriptional control elements of immunoglobulin genes. *Nature*, 1986, 319: 154-158

7 酵母中TOR蛋白的发现

Heitman J, Movva NR, Hall MN. Targets for cell cycle arrest by the immunosuppressant rapamycin in yeast. *Science*. 1991 Aug 23; 253(5022):905-9.

8 哺乳动物mTOR的克隆

Brown EJ, Albers MW, Shin TB, Ichikawa K, Keith CT, Lane WS, Schreiber SL. A mammalian protein targeted by G1-arresting rapamycin-receptor complex. *Nature*. 1994 Jun 30; 369(6483):756-8.

9 第一个人类癌基因*ras*的发现

Parada LF, Tabin CJ, Shih C, Weinberg RA. Human EJ bladder carcinoma oncogene is homologue of Harvey sarcoma virus ras gene. *Nature*. 1982 Jun 10; 297(5866):474-8.

10 激酶Raf-1的发现

Rapp UR, Goldsborough MD, Mark GE, Bonner TI, Groffen J, Reynolds FH Jr, Stephenson JR. Structure and biological activity of v-raf, a unique oncogene transduced by a retrovirus. *Proc Natl Acad Sci U S A*. 1983 Jul; 80(14):4218-22

11 第一个*Wnt*基因的克隆

Nusse R, Varmus HE. Many tumors induced by the mouse mammary tumor virus contain a provirus integrated in the same region of the host genome. *Cell*. 1982 Nov; 31(1):99-109.

六 中英文对照表 (Abbreviations)

英文简称	英文全称	中文
AML	acute myeloid leukemia	急性骨髓系白血病
APC	adenomatous polyposis coli	腺瘤性结肠息肉病蛋白
BMP	bone morphogenetic protein	骨形态发生蛋白
CML	chronic myeloid leukemia	慢性骨髓系白血病
I κ B	Inhibitory protein of NF- κ B	核因子- κ B抑制蛋白
IKK	I κ B kinase	核因子- κ B抑制蛋白激酶
JAK	Janus kinase	酪氨酸激酶
JH	JAK homology domain	JAK同源结构域
JPS	juvenile polyposis syndrome	幼年性息肉综合症
LPS	Lipopolysaccharides	脂多糖
LT	lymphotoxin	淋巴毒素
MPD	myeloproliferative disorders	骨髓增生综合症
mTOR	mammalian target of rapamycin	哺乳动物雷帕霉素靶点
NF- κ B	nuclear factor-kappa B	核因子- κ B
PDK1	phosphoinositide-dependent kinase 1	磷脂酰肌醇依赖型激酶1
PDGFR- β	platelet-derived growth factor receptor- β	血小板衍生生长因子受体 β
PI(3)K	phosphatidylinositol-3-kinase	磷脂酰肌醇-3-激酶
PI3P	phosphatidylinositol 3-phosphate	3-磷酸磷脂酰肌醇
PIP2	phosphatidylinositol 4, 5-bisphosphate	4, 5-二磷酸磷脂酰肌醇
RHD	Rel homology domain	Rel同源结构域
RIP	receptor interacting protein	受体相互作用蛋白
RTK	receptor tyrosine kinase	酪氨酸激酶受体
SCID	severe combined immunodeficiency	重度联合免疫缺陷综合症
STAT	signal transducer and activator of transcription	信号传导及转录激活因子
TNF	tumour necrosis factor	肿瘤坏死因子
TNFR	tumor necrosis factor receptor	肿瘤坏死因子受体
TRAF	TNFR-associated factor	肿瘤坏死因子受体相关因子
VEGFR	vascular endothelial growth factor receptor	血管内皮生长因子受体