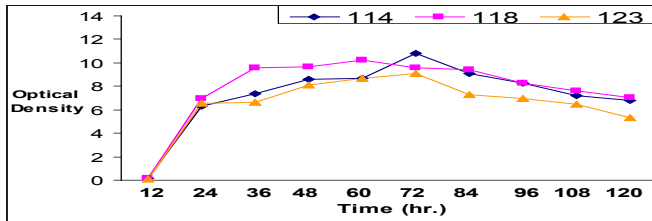


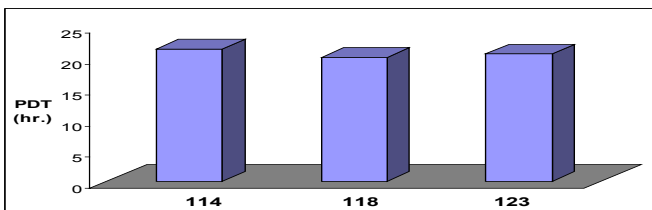
النتائج:

gKQe xzUua aOL gAqz j a jAaAua du Sgz: Lag phase jzOUEa xzu* Ba Czae 12 Ba AAua GUUu du paaAau KpaO Qig UuaZura GPa 3u CpaAOua (123 s 118 ;114) GYua gAAaUua AYUa zta GEoeja gAAaAa GaAa Ba .(1) OOIua Z kua AuaS GeaAua Ae



شكل (1): منحنى النمو لخلايا الخط الخلوي السرطاني AMN-3
لثلاث تمريرات متتابة

* طور اللوغارتمي *Log phase*: Sgz: gAqz j a jAaAua du Sgz: -12 72 kaA 114 leu gAAaUua Aa3 KgsaA Qig UuaZura GPa 3u CpaAOua ;(10.8 ;8.71 ;8.6 ;7.34 ;6.32 ;0.126) BaZua zVz K8ya aa Czae ;(6.95 ;0.16) BaZua zVz K8ya aa 118 leu gAAaUua Aa3 Czae -12 60 K8ya aa 123 leu gAAaUua Aa3 Czae -12 72s (10.26 ;9.67 ;9.54 gAAa OOA I (9.11 ;8.7 ;8.1 ;6.61 ;6.51 ;0.07) BaZua zVz Kexaa saA 3u slaAa AeBaAa gOza GZUa Z gAAa ozOgs GeaU Czae 21.34 K8ya Z3ARua du a aAa AUAa AaAa .GYua gAAaUua gAAaUua Czae 20.54s 118 leu gAAaUua Czae 19.94 ;114 leu gAAaUua .(2) leu OOIua Z GZUa AaAa 123 leu



شكل (2): فترة التضاعف لخلايا الخط الخلوي السرطاني AMN-3
للتمريرات الثلاثة قيد الدراسة

* طور الانحدار *Decline phase*: Sgz: gAqz j a jAaAua du Sgz: 120- kaA gAAaUua OOL gAqz j a jAaAua du Sgz: 118 leu gAAaUua Czae 120-60s 123s 114 kaAAaUua Czae 72 UGaAa Ae Czae 120 GaAa Kexaa saA AYUa zVz aAaAa Z a AYUa Sgz: ;114 leu gAAaUua (6.8 ;7.23 ;8.25 ;9.05) BaZua zVz K8ya Qig ;8.3 ;9.4 ;9.61s 123 leu gAAaUua (5.31 ;6.5 ;6.93 ;7.3) .118 leu gAAaUua (7.01 ;7.64

المناقشة:

Z gK8Uua AYUa GaAaAa aAa Paa GZUa GAAa zta gAAaAa aAaAa aAaAa

المواد وطرائق العمل:

UaAaAa AOAa /FADZua ZYua leu Z QHua aAa GPa a aAaAa KAAZUa a Ae GeaAa OAua du Rk .GAOAua GHua a /GUAua GPaAa jAa aAa aAa Log UQaAdu xzu Ulag phase jzOUEa xzu) zta gAaAa aAaAa xzu Aa3 PDT Z3ARua gAqz Decline phase aAaAa xzu Uphase leu gAAaUua du paaAa GHua gAAaUua qYua AMN-3 AYUa U (Log GAAa AeGs GeaAa gAAaUua ER PaaAa gAAaUua O k 123s 118 ;114 jAaAa aAa QHua UaAaAa AOAa Oa du CAAaAa Ua zVz ozOsa Z Aes (3) .GAOAua GHua a /GUAua GPaAa

الوسط الزرع: RPMI-1640 UzaAa UGaZUa zVz Ua aOL Hy Sigma GAAa du ATDUa (Roswell Park Memorial Institute duRgs (T- Flasks (h25 cm Udu aAa aAa Z (chemicals Fetal calf serum BAua ODUa OAua du 5% aATf y37 gaaG GDUa Confluent mono- GHuaAa GaAaGj a GUAua jzOka Aa3 U (F.C.S ° Trypsine- versinekaA /kaAaAa ozUua AYUa KZUa layer aAa GAaAa Ona (Subculture) Paa GZUa GPaAa Ba ATaAa OaAa . Laminar air flow cabinete UduAa

تهيئة خطوط الخلايا: aAa Ba kaAa /kaAaAa ozUa du OA 2 ZUa KaaG Z UzaAa UGaZUa du ATAAa AaAa AYUa zVz GAsa UduAa aAa aAa 10-5 gAa y37 gaaG GDUa Incubator GaAaAa Z KARg Z FaAa ozOHua aAaAa aAaAa GAaAa OAua UGaAa AYUa OAua FaAa AYUa zVz BaAa aAaAa Ba ZUa Z .gAAa GaAaG AYUa zVz jAaAa aAa aAaAa aAa U (RPMI-1640) AUAdu zy UGa du OA 20-15 GAAa gaAaUua UduAa aAaAa aAaAa zVz AMN3 AYUa K3as Z paAdu Microtiter plate for tissue culture with 96 flat AaAa gaAa OAa gaAaAa 6 zaAa gaAa OAa OA 0.2 aAaAa (gaAa bottom (96 120s 108 ;96 ;84 ;72 ;60 ;48 ;36 ;24 ;12) aAa aAaAa GaAa Z aAa aAa UaAa 3rs GTGYu 3u .GaAaAa Ae CGYua gAAaUua Czae .gAAaAa

التصبيغ: UGaAe 12 gAa y37 gaaG GDUa GaAaAa Z gAAaAa GaAaAa OAa GaAaAa AaAa aAaAa aAaAa UGaZUa du OAua Z aAaAa Crystal Baza GaAaAa GUAua AYUaAa OAa AYUa zy 8 OAaAa Aa UaAa OAa UGaAa 20 gAa OA 0.1 aAaAa (9) GAAa AeGs gaAaG Yua violate (.Distal water (D.W AUua aAaAa gaAa qYua ATaAa GUAua KAAa gAa .yAA 5 gAa Czae 12 OA GPaAa OOL gaAa .GaAaAa Ba gaAaAa Enzyme-linked immunosorbent assay aAaAa aAaAa aAaAa .AaAaAa 492 GaAaAa zVz (ELISA

: (Population doubling time PDT) Z3ARua du aAaG GeaAa Ae CGYua gAAaUua Log UQaAdu xzu du r PDT gAqz aAaG Z : (10) BAua jzOua aAaAa

$$PDT = 0.693 (t - t_0) / (\ln (N_t / N_0))$$

: j a Qig

$$t = gAqz aAa UTAa BAa Kexaa Log$$

$$t_0 = gAqz Aa3 UTAa BAa Kexaa Log$$

$$N_t = gAAaAa Aa3 AYUa aAa t$$

$$N_0 = gAAaAa Aa3 AYUa aAa t_0$$

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Study the Growth Curve for AMN-3 Cell Line

Maeda H. Mohammad*, Hussamelden M. Kadhum*, Ahmed M. AL- Shamery*, and Aymen A. Hassan*

**Iraqi Center for Cancer Research and Medical Genetics\ AL- Mostanseria University*

Abstract:

Tissue culture technique was used to study the growth curve for AMN-3 cell line which had been grown in vitro for three different passages (114, 118, 123), five sequenced between one passage to other and for ten period (12, 24, 36, 48, 60, 72, 84, 96, 108, 120) hour; to detect the stages of cell cycle and calculate population doubling time (PDT) for three passages. The result shows the shortening of the Lag phase (from zero point- 12) h. for three passages in comparison to other stages, on the other side the long in the Log phase, its between 12- 72 hour for the passages 123, 114 and 12- 60 hour for 118 passage. The variation of population doubling time for the three passages was reaches sequins 21.34, 19.94 and 20.54 hour. Thus the result was show adhesions between Log and Stationary phase until the decline phase which show redacts in among cell growth during the time until 120 h. of the study and for the three passages.