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|  | **PERKHIDMATAN UTAMA**  **PENYELIDIKAN DAN INOVASI**  **PEJABAT TIMBALAN NAIB CANSELOR**  **(PENYELIDIKAN & INOVASI)**  **Kod Dokumen: PU/PY/BR30/SKBL** |
| **BORANG MENGHADIRI SEMINAR/ KONFERENSI/ BENGKEL/ LAWATAN KE LUAR NEGARA**  ***APPLICATION FORM TO ATTEND OVERSEAS SEMINAR /CONFERENCE/ WORKSHOP/ VISIT*** |

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| **MAKLUMAT PEMOHON** *APPLICANT INFORMATION* | | | | | | |
| 1. Nama   *Name* : | |  | | | | |
| 1. Jawatan   *Position* : | |  | | 1. No. MyKad / *Passport:* | |  |
| 1. No. Kakitangan:   *Staff No.* : | |  | | 1. Tarikh Mula Berkhidmat:   *Date of Appointment*: | |  |
| 1. Taraf Perkhidmatan:   *Status of Service*: | |  Tetap *Permanent*   Kontrak *Contract* | | 1. Gaji Pokok & Gred Gaji:   *Basic Salary & Grade* : | |  |
| 1. Tempoh Telah Berkhidmat dalam Jawatan:   *Year in service:* | |  | | 1. Tarikh disahkan dalam Jawatan:   *Date confirmed in Position:* | |  |
| 1. No. Telefon:   *Telephone No.* : | |  | | 1. No. Tel. Bimbit:   *Handphone*: | |  |
| 1. E-mel (*E-mail)* : | |  | | | | |
| 1. Jabatan / Makmal:   *Department/Laboratory*: | |  | | | | |
| 1. Fakulti / Institut:   *Faculty/Institute* : | |  | | | | |
| **MAKLUMAT *EVENT*** *EVENT INFORMATION* | | | | | | |
| 1. Jenis Event |  Seminar  Konferensi  Bengkel  Lawatan  Mesyuarat | | | | | |
| 1. Tempat diadakan :   *Venue* : |  | | 3. Tarikh *Event* :  *Date of Event :* | |  | |
| 1. Tajuk Event :   *Title of Event :* |  | | | | | |
| 1. Penganjur :   *Organiser* : |  | | | | | |
| 1. Penyertaan Sebagai:   *Participation As* : |  Pembentang Kertas Kerja secara lisan *Oral Presenter*   Ahli Panel / Mesyuarat *Panel / Meeting* | | | | | |
| 1. Tajuk Kertas Kerja:   *Title of Paper* : |  | | | | | |

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| 1. Justifikasi untuk menghadiri Seminar / Konferensi / Bengkel / Lawatan ke luar negara ini. *Justification to attend this international Seminar / Conference / Workshop*: | | |  | | | | |
| * + - * Sila lengkapkan Abstrak Kertas Kerja mengikut format yang disediakan   *Please complete Abstract of Paper according to the format given.*   * Kertas kerja yang akan dibentangkan perlu mengandungi nama pelajar siswazah yang terlibat dalam penyelidikan berkaitan. | | | | | | | |
| **MAKLUMAT PELAJAR SISWAZAH**  Kertas kerja yang akan dibentangkan perlu mengandungi nama pelajar siswazah yang terlibat dalam penyelidikan berkaitan.  ***STUDENTS INFORMATION***  *The papers to be presented should contain the name of the graduate student involved in the relevant research.* | | | | | | | |
| 1. Nama Pelajar Siswazah:   *Name of Graduate Student:* | | |  | | | | |
| 1. No Matrik :   *Matric Number*: | | |  | | | | |
| 1. Peringkat pengajian:   *Level of Studies*: | | |  | | | | |
| 1. Tajuk Penyelidikan:   *Research Title*: | | |  | | | | |
| 1. Seminar / Konferensi / Bengkel / Lawatan di **luar negara** yang telah dihadiri dalam masa dua (2)   tahun *Overseas Seminar / Conference / Workshop / Visit attended within two (2) years* : | | | | | | | |
| **Tarikh**  ***Date*** | **Tajuk Event**  ***Event Title*** | **Tempat**  ***Venue*** | | **Jumlah Peruntukan Universiti (RM) *Sponsored by University (RM)*** | **Bantuan-bantuan Lain Yang Diterima (RM)**  ***Other Sponsorship***  ***(RM)*** | **Vot . Geran yang digunakan**  ***Vote of Research***  ***Grant Utilised*** | **Tarikh hantar borang laporan perjalanan ke RMC *Date of submittion of Report On International Events Attended to RMC*** |
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\* Sekiranya belum hantar laporan perjalanan yang lepas, Sila isi BORANG LAPORAN PERJALANAN LUAR NEGARA (PU/PY/BR31/LAPORANSKBL) dan

lampirkan bersama borang ini.

\* *If not send the previous Report on International Events Attended, please fill in the form* (BORANG LAPORAN PERJALANAN LUAR NEGARA (PU/PY/BR31/LAPORANSKBL) *and attach together with the form.*

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| ***TRACK RECORD* PENERBITAN**  *PUBLICATION TRACK RECORD* | | | |
| 1. Hasil penyelidikan yang telah diterbitkan dalam artikel jurnal dalam tempoh 3 tahun kebelakang   *Research output that have been published in the article journals in 3 years* | | | |
| **Peringkat (Q1/Q2/Q3/Q4/ Scopus sahaja)** | **Hasil Penerbitan (Pengarang, Tajuk, Jurnal, Jilid, Mukasurat)**  ***Publication (Author, Title, Journal, Volume, Page Number)*** | | **Tahun**  ***Year*** |
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| Sila sertakan tiga (3) salinan abstrak bagi penerbitan yang disenaraikan.  *Please attach three (3) copies of abstract for the listed publications* | | | |
| **TRACK RECORD PENGHASILAN PELAJAR SISWAZAH – Pegawai Akademik sahaja**  *POST GRADUATE STUDENT TRACK RECORD – for Academician only* | | | |
| 1. Bilangan pelajar siswazah dalam tempoh 3 tahun kebelakang   *Number of graduate students in 3 years* | | | |
| **Peringkat (Master / PhD)** | **Nama Pelajar / No Matrik** | **Tahun / Status**  ***Year / Status*** | |
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1. Nyatakan peruntukan kewangan yang diminta secara terperinci.

*Please provide details of financial assistance requested.*

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| **Perkara / *Item*** | **Kadar / *Rate***  **(RM)** | **Hari / *Day*** | **Jumlah Dipohon /**  ***Total of Request (RM)*** |
| a) Tambang / *Fare* |  |  |  |
| i. Kapal terbang / *flight* |  |  |  |
| ii. Pengangkutan internal /  *internal transport* |  |  |  |
| b) Makan / *Food* |  |  |  |
| c) Penginapan / *Lodging* |  |  |  |
| d) Yuran seminar / *Fee* |  |  |  |
| **JUMLAH BESAR / *OVERALL TOTAL (RM)*** | | |  |

Sekiranya menerima bantuan daripada penaja lain sila nyatakan pada jadual diatas.

*If you receive assistance from other sponsors please indicate in the table above.*

1. Pengesahan Bursar Zon di PTJ

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| **MAKLUMAT GERAN /*GRANT INFORMATION*** | | | |
| Jenis Geran:  *Grant Type*: |  | | |
| Tajuk Projek:  *Project Title*: |  | | |
| Penaja Geran:  *Grant sponsor:* |  | | |
| Tarikh Mula:  *Start Date:* |  | Tarikh Tamat:  *End Date:* |  |
| No. Pusat Kos:  *Vote No.*: |  | | |
| Jumlah Geran Diluluskan (RM):  *Total of Approved Grant (RM):* |  | Baki Terkini Geran (RM): *Latest Balance of Grant (RM):* |  |
| Baki J500/ V21000:  *Balance of J500/V21000 (RM):* |  | Baki J900/ V29000 (RM)  *Balance of J900/V29000 (RM):* |  |
| Ulasan daripada Zon Kewangan, Bursar / *Remarks by Finance Zone, Bursar*  \***Baki siri J500/V21000 dan J900/V29000** / *Total of Balance Series J500/21000 and J900/29000*  Mencukupi Tidak Mencukupi  *Enough Not Enough* Disahkan oleh / *Certified by* :    \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Tandatangan & Cap Rasmi  *Signature & Offical Stamp* | | | |

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| **PENGESAHAN PERLINDUNGAN HARTA INTELEK** *DECLARATION OF INTELLECTUAL PROPERTY PROTECTION* |
| 1. Maklumat Perlindungan Harta Intelek/ *Notice Of Intellectual Property Protection* 2. Sudahkah anda memfailkan untuk perlindungan Harta Intelek untuk hasil penyelidikan ini? *Filing of Intellectual Property Protection for research output?*    Sudah /*Yes*  Tidak Perlu/*No Need*  Belum/ No  (sila rujuk Bahagian Pelindungan Harta Intelek,Putra Science Park  *Please refer Intellectual Property Protection Division,*  *Putra Science Park*)   1. Jika jawapan anda pada soalan 1 adalah sudah, sila lengkapkan maklumat perlindungan yang dilakukan   *If Yes, please complete the information*:-   * 1. Tajuk/Title :   2. Status :   3. Jenis Harta Intelek:*Type of Intellectual Property : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*   4. Tarikh Pemfailan/ Akuan Berkanun :   *No. and date of filing/ statutory declaration*   1. Saya mengesahkan **sudah memfailkan / perlu memfailkan / tidak perlu memfailkan** perlindungan harta intelek untuk hasil penyelidikan ini.   *I certify the result of this research is* ***already filed / need to file / not need to file*** *an intellectual property protection*  Ulasan: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Tarikh/*Date*: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Tandatangan Pemohon dan Cap Jawatan  *Applicant Signature and Stamp of Position* |
| **AKUAN PEMOHON** *DECLARATION BY APPLICANT* |
| Saya bersetuju bahawa Jawatankuasa/ Pengarah Pusat Pengurusan Penyelidikan berhak menarik balik ke lulusan yang diberi sekiranya terdapat maklumat palsu dikemukakan sewaktu permohonan dibuat.  *I agree that the Committee / Director of Research Management Centre will be withdrawn an approval given if there any false information submitted during application.*  Tarikh Mohon  *Application Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*  Tandatangan Pemohon  *Applicant Signature*  **PENTING: Sekiranya anda merupakan penyelidik bersama bagi geran peruntukan ini, sila dapatkan cap pengesahan daripada Ketua Projek.** *IMPORTANT: If you are the co-researcher of the grant, please obtain stamp of certification from Project Leader.* |
| **ULASAN DAN PENGESAHAN KETUA PROJEK (UNTUK PERMOHONAN DARIPADA PENYELIDIK BERSAMA)** *REMARKS AND CERTIFICATION BY HEAD OF PROJECT (FOR APPLICATIONS FROM PROJECT TEAM* |
| Saya mengesahkan pemohon adalah salah seorang ahli projek berkaitan dan bersetuju bahawa peruntukan geran ini digunakan untuk tujuan sepertimana dipohon.  *I certify the applicant is one of the project members and agrees that the allocation of this grant is used for the purpose as requested*  Ulasan: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Tarikh Mohon  *Application Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*  Tandatangan dan Cap Jawatan  *Signature and stamp of Position* |

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| **SEMAKAN & SOKONGAN KETUA PTJ / TIMBALAN DEKAN (PENYELIDIKAN)/ TIMBALAN PENGARAH**  *REVIEWS AND ENDORSEMENT BY HEAD OF PTJ / THE DEPUTY DEAN (RESEARCH) / DEPUTY DIRECTOR* |
| 1. Saya **mengesahkan/ tidak mengesahkan** bahawa seminar/konferensi adalah dianjurkan oleh badan akademik dan profesional dalam bidang berkaitan 2. Saya **mengesahkan/ tidak mengesahkan** bahawa kertas kerja yang dibentangkan adalah berkaitan dengan geran berkaitan   Ulasan Timbalan Dekan (Penyelidikan) / Ketua Makmal  *Remarks by the Deputy Dean (Research) / Head of Laboratory:*  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Tarikh/*Date* : *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*  Tandatangan dan Cap Jawatan  *Signature and stamp of Position* |

**SENARAI SEMAK**

**BORANG PERMOHONAN SEMINAR LUAR NEGARA**

***CHECKLIST FOR OVERSEAS SEMINAR APPLICATION***

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| No. | Perkara *Item* | Sila tandakan  ” √ ”  *Please tick*  *” √ ”* |
| 1. | Permohonan dibuat dalam tempoh enam (6) minggu sebelum tarikh event  *Application submitted within a period of six (6) weeks before event* |  |
| 2. | Abstrak kertas kerja disertakan *Abstracts of papers included* |  |
| 3. | Abstrak 3 jurnal terkini disertakan *Abstracts of 3 journal included* |  |
| 4. | Dapatkan pengesahan daripada Bendahari Zon PTJ, beserta Penyata Kewangan yang lengkap *Kindly get confirmation from the Zone Treasurer along with the complete Financial Statements* |  |
| 5. | Melengkapkan Maklumat Perlindungan Harta Intelek  *Kindly fill up the Notice of Intellectual Property Protection* |  |
| 6. | Surat penerimaan kertas kerja untuk pembentangan secara lisan / kebenaran lawatan ada disertakan  *Letter of paper acceptance for oral presentation/ permission to visit has been attached* |  |
| 7. | Brosur seminar / konferensi/ bengkel disertakan atau lain-lain dokumen yang berkenaan /  jadual lawatan disertakan  *Brochure of seminar / conference / workshop attached or other relevant documents / schedule of visit attached* |  |
| 8. | Jadual dan kos penerbangan daripada *travel agency* / pra-tempahan atas talian daripada syarikat penerbangan dilampirkan  *Flight itinerary and flight expenses/online pre-booking from airline company has been*  *attached* |  |
| 9. | Salinan borang sebanyak dua (2) salinan  *Two* (2*) copies of application form* |  |

**Sebarang maklumat lanjut, sila hubungi:**

*For further details, please contact:*

Urusetia JKK SKBL Disahkan oleh: Pusat Pengurusan Penyelidikan

Universiti Putra Malaysia, Serdang

Telefon : 603-8947 1638 Tandatangan dan Cap Jawatan

Faks : 603-8945 1596 Pejabat Timbalan Dekan Penyelidikan/Pengarah

**CONTOH FORMAT PENYEDIAAN ABSTRAK KERTAS KERJA**

***EXAMPLE OF FORMAT FOR PREPARATION OF ABSTRACT OF PAPER***

Title: **Investigating the neuroprotective effects of inducing HSP70 expression in the kainic acid**

**model of neurotoxicity**

**Author:** Vidyadaran S

**Department/Faculty:** Department of Pathology, Faculty of Medicine and Health Sciences

**Aim:** The aim of this study was to determine the cytoprotective effects of geranylgeranylacetone (GGA) in transgenic mice overexpressing heat shock protein (HSP) 27. Previously, we have demonstrated that HSP27 transgenic mice are protected from kainic acid (KA)-induced cell death in the hippocampus. To determine if inducing HSP70 expression in our HSP27 transgenic mice could confer even greater protection against KA, we used the antiulcer drug, GGA to increase HSP70 levels in the hippocampus (this section of the work carried out at Department of Cellular & Molecular Neuroscience, Imperial College London).

**Methodology:** Fresh frozen brain samples from GGA-treated mice killed at 7 days post-KA administration were collected, stained with haematoxylin and eosin (H&E) and analysed for neuronal cell density. Four geometrical Area of Interests (AOIs) were placed in CA1, CA2 and CA3 (arc and hilus) regions of the hippocampus. The total number of neurones within each AOI was enumerated. The reliability of the cell quantification was determined by performing repeated counts on a single brain section.

**Results:** Counts for all four AOIs showed low standard deviation (SD), indicating low variability. Cell counts were also performed on images that were manipulated for maximum contrast. Variations within regions, as determined by SD were lower in maximum contrast images compared to regular images for hilus, CA2 and CA1 but not arc region. All further counts were conducted on maximum contrast images. HSP27 transgenic mice treated with GGA showed no significant difference (p>0.05) in cell count following treatment with KA in any of the AOIs. This indicates that the constitutive expression of the HSP27 transgene is sufficient to provide neuroprotection following KA treatment.

**Conclusion and future work:** It is concluded that the HSP70 induction by GGA does not confer greater protection to HSP27 transgenic mice following KA. Future work should examine the possibility of developing double transgenic mice (HSP27 X HSP70) to determine the neuroprotective effects of constitutively expressing both these HSPs.

**Key words:** HSP, kainic acid, hippocampus, geranylgeranylacetone