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## **Application for support to attend the BSP Meetings only.**

**These awards provide financial support to student members of the Society, to facilitate their participation at the Society's annual Spring Meeting and Autumn Symposium.**

The awards will be given on a first come, first-served basis until the abstract submission deadline. Applicants must also submit an abstract for the meeting to be eligible to apply.

The following rules apply to these awards:

1. Applicants must be members of the BSP at the time of application. For first year students, an application to join the BSP must be submitted before or when applying for support.
2. Each application form requires a statement of support from the student's supervisor (this includes 1st-year PhD students).
3. The applicant must be presenting a poster or oral presentation at the meeting. First year PhD students are exempt from this rule.
4. The financial support of the BSP should be acknowledged in any talk or poster presentation made by the student at the meeting. Council considers this to be important because this allows BSP membership to see how Society funds are being used.
5. Support is provided to PhD students and to students who have completed their studies but are currently writing up their theses. No support can be provided to postdoctoral fellows, salaried researchers or undergraduate students.
6. A maximum of £200 will be provided to each applicant for each Spring Meeting and £100 for each Autumn Symposium.
7. A maximum of £600 will be provided to each student during the course of his or her PhD under this scheme. Students working towards a PhD on a part time basis over more than 3 years should contact the Hon. Treasurer if they wish to apply for support to attend additional meetings.
8. Applications should be made on the form below and should be sent BY E-MAIL to the Hon. Treasurer at [angus.bell@icr.ac.uk](mailto:angus.bell@icr.ac.uk).  
NB: MEMBERSHIP INQUIRIES SHOULD BE SENT TO THE B.S.P. SECRETARIAT ([info@bsp.uk.net](mailto:info@bsp.uk.net)) AND NOT TO THE HON. TREASURER.

Payments are made by cheque at the meeting or via Bank transfer after.

See webpage of the relevant meeting for the application closing date.



# British Society for Parasitology

## Student Travel Award application form

1. Applicant Details			
Name	Archana Nayak		
Address	53/3, Stenhouse Gardens, Edinburgh, EH11 3LS.		
Tel:	07854897280	Mobile:	07854897280
Email	archananayak127@gmail.com	BSP membership number or date of application	6559 or 14/01/2015
PhD supervisor	Dr Richard Burchmore Prof Michael P Barrett	PhD funding body	DTC in Cell and Proteomic Technologies at University of Glasgow, EPSRC and BBSRC
PhD Title	Investigation of amino acid utilisation in <i>Leishmania mexicana</i> promastigotes		
PhD start date	01/10/2013	Current year of study	Thesis pending stage

2. Conference funding sought		
Please provide details of the cost of attending the conference in the sections below:		
Item	Details	Cost
Travel: Include details of route and fares. Proof of travel (e.g tickets) will be required.	Train fare from Edinburgh to Dundee (off peak return for 3 days) and city bus	£75 £25
Registration fee		£150.00
	Registration no (if known):	6559
Accommodation & subsistence: (give brief details)		0.00
	<b>Total:</b>	£250.00
	If you have received support towards the cost of attending this meeting from another source please state the amount here.	0.00
	<b>Net cost of attending the meeting (Total costs – other support received)</b>	£250.00
Please provide details of any other support that you have received from the BSP to attend previous meetings		
Year	Venue	Amount
2015	Liverpool	£200
	<b>Total support previously received</b>	£200



# British Society for Parasitology

## Student Travel Award application form

<b>How much do you wish to apply for towards the costs of attending this meeting?</b> <b>Remember: Maximum award for each meeting= £200 for spring, £100 for autumn,</b> <b>maximum total award to each student in a three year period= £600</b>	<b>£200</b>
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<b>3. Spring Meeting Only</b> <b>Your contribution to the Spring Meeting and support from your supervisor</b>
Please paste details of the title, authors and affiliations of your submitted abstract here. If you have not yet submitted an abstract then enter your current best guess as to the details here. First year students are not obliged to complete this section – if you are a first year student and you are not presenting at the meeting write “first year student” in the box.
Title: Time resolved metabolic foot printing of <i>Leishmania mexicana</i> promastigotes in simple defined minimal media.  Authors: Archana Nayak, Michael P Barrett, Richard Burchmore  Affiliation: Institute of Infection, Immunity and Inflammation; Glasgow Polyomics; College of Medical, Veterinary and Life Sciences; University of Glasgow; Glasgow; G12 8TA; U.K.  Metabolic foot printing involves quantification of metabolite uptake and excretion from the culture media. Use of chemically defined media for metabolic foot printing brings new insights into nutrients utilisation, determination of growth dependent changes of cellular metabolism and standardisation of results between laboratories. In our study, time resolved metabolic foot printing was carried out by comparison of culture supernatant of <i>L.mexicana</i> promastigotes at various time points and extensive bioinformatics analysis was carried out to derive significant biological information. Of the 205 metabolites putatively identified across replicates in both positive and negative ionisation mode, 68 metabolites matched with authentic standards for individual mass/charge ratio and retention time comparison. Overall, ~25 % metabolites depleted from the medium, ~15% not changed significantly and ~40% of metabolites significantly enriched in the medium. Glucose, adenosine and certain amino acids were amongst the depleted components of the medium compared to vitamins from the defined medium composition. Furthermore, amino acids such as L-tryptophan, L-aspartate, L-glutamate, L-arginine, L-methionine and L-serine were classified under continuous utilisation as more than half the initial abundance were consumed from the medium in 9 days growth period. Amino acids such as L-leucine, L-threonine, L-valine, L-phenylalanine, L-tyrosine and L-lysine were taken up moderately. L-Glycine, L-glutamine, L-asparagine, L-proline and L-alanine were significantly enriched in medium over time. Systematic analysis of the 40% excreted small molecules enriched in the culture media allowed new insights about their role in establishment of parasitism, with macrophage cells as <i>in vitro</i> experimental model.
<b>Please ask your supervisor to paste a statement of support in the box below.</b>



## British Society for Parasitology

### Student Travel Award application form

Archana is writing up her PhD, but she has passed the end of her funded period, and I do not have a budget to support her attendance at the BSP meeting. Nevertheless, I think she will benefit very much from the networking opportunity attendance at the meeting will offer, as well as from feedback from other delegates, which will be invaluable as she puts the finishing touches to her thesis (she aims to submit in May). Finally, I think the data she will present will be of interest to many working with *Leishmania*.

Supervisors name	Dr Richard Burchmore Prof Michael P Barrett	Date	17/02/2017
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<b>4. Payment</b>			
<b>Non-UK bank accounts - paid direct to your account after attending the meeting</b>			
Bank name	Royal Bank of Scotland		
Bank full postal address	568 Alexandra Parade Glasgow G31 3BP		
IBAN number/BIC code/SWIFT code			
Otherwise provide Bank account number			
Bank accountholder name (e.g. your name)	Archana Nayak		
Bank accountholder full postal address (e.g. your address)	53/3, Stenhouse Gardens, Edinburgh, EH11 3LS.		
<b>UK bank accounts - paid direct to your account after attending the meeting or by cheque at the meeting</b>			
By Cheque	Y		
Bank accountholder name	Archana Nayak		
Sort code	8 3 - 2 2 - 3 0	Bank account number	0 0 2 8 5 4 8 1