
From: J Pedro Magalhaes [mailto:aging@liverpool.ac.uk]
Sent: dinsdag 3 februari 2015 17:54
To: self_at_senescence
Subject: Bioinformatics and genetics of ageing

Dear Sir or Madam,

I would be very grateful if you could forward this information to your students and to anyone else who may be interested.

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A bioinformatician position is available in the *Integrative Genomics of Ageing Group* at the University of Liverpool to employ computational biology approaches to study ageing and longevity. We are looking for an enthusiastic and ambitious applicant to develop and apply sophisticated data-mining methods and computational models at the interface of biology, mathematics and computer science. Areas of interest include (but are not limited to) systems biology, functional genomics, network analysis, and genome evolution. Applicants should have experience in programming languages, ideally in context of bioinformatics and genomics, and applicants with peer-reviewed publications will be given preference.

We also have openings for internships and graduate students, though applicants would have to obtain their own funding. Our work on the biology and genetics of ageing combines traditional molecular biology and biochemistry methods, in particular using cell models including stem cells, with modern genomics and bioinformatics techniques. Among other projects, our group studies how the genome regulates the process of ageing to try to understand how subtle genetic differences give rise to large differences in longevity, both between individuals and among species. Methods available in our group also allow us to study the genetics of complex age-related diseases like cancer and neurodegenerative diseases. We are also studying the naked mole-rat, a rodent that lives over 30 years and is extraordinary resistant to cancer, and the bowhead whale, the longest lived mammal (longevity > 200 years). Choice of projects, however, is flexible and tailored to the interests of each individual.

More information about our group and projects we are involved in is available online:
<http://pcwww.liv.ac.uk/~aging/>

Potentially interested students and applicants are welcome to contact us for an informal discussion (Dr Joao Pedro de Magalhaes, aging@liv.ac.uk or +44 151 7954517).

Thanks,
Joao Pedro

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