



# UNIVERSIDADE DE SÃO PAULO

## ESCOLA DE EDUCAÇÃO FÍSICA E ESPORTE



The Director of the School of Physical Education and Sport of the University of São Paulo announces the opening faculty position (position 1241664, full-time position service), specialty “Genetics Applied to Motor Activity”. Interested applicants should hold a Ph.D. The position requires a commitment to teaching and the ability to conduct independent research. Applications will be accepted from March 8th, at 0:01 a.m., to May 6th, at 23:59 p.m. (GMT-3). The entry-level monthly salary (MS3 level) is R\$ 14,761.02 plus benefits.

The public competition will cover the following program:

1. From DNA to phenotype : how genes work ;
2. Recombinant DNA technology and its applications in the study of gene function : applied to physical exercise ;
3. Genetically modified animals and their importance in physical exercise ;
4. Human genetic variability : mutation and genetic polymorphism applied to physical activity. Influences on physical fitness and health ;
5. Human genetic variability : mutation and genetic polymorphism applied to physical activity. Influence on physical fitness and sports performance ;
6. Mapping and identification of human genes applied to the area of physical education and sport ;
7. Epigenetics : possible applications for physical activity ;
8. Muscle protein architecture and its impact on physical performance ;
9. Influence of physical activity on gene and protein expression and their regulatory factors ;
10. Interaction between physical activity and genetics in the prevention and treatment of chronic diseases ;
11. Genomic and proteomic predictor of trainability ;
12. Molecular biology of mitochondria : importance in exercise, aging, and neurodegenerative diseases;
13. Genetics and thics: from human genetic mapping to genetic doping ;
14. Physiological responses to exercise and gene regulation;
15. Physiological effects of exercise training and gene regulation .

The public competition will be governed by Brazilian constitutional principles, notably that of Impersonality, as well as by the Statute and the General Regulations of the University of São Paulo and the Regulations of the School of Physical Education and Sport.

At the time of application, the candidate must present proof that he or she holds a doctorate degree granted by USP, recognized by it, or nationally valid (Art. 133, item II of USP's General Regulations). If the candidate has obtained his/her PhD abroad prior to registering for the contest and with sufficient time to



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complete the procedure, he or she must either request the 'equivalence of the doctorate title' (valid exclusively within the scope of USP, for competitions within USP) or the 'revalidation of the doctorate degree' (which grants national validity to the title).

Applications must be submitted exclusively via the website <https://uspdigital.usp.br/gr/admissao> in the period indicated above. Applicants must use Portuguese in their written materials and oral presentations. The candidate must submit an application letter to the School of Physical Education and Sport Director. More information and rules relevant to the public competition of titles and tests are available to interested parties at the Academic Assistance of the School of Physical Education and Sport of University of São Paulo, in the electronic address [atacefe@usp.br](mailto:atacefe@usp.br), or on our website [www.eefe.usp.br](http://www.eefe.usp.br)