

Σγουρού Αργυρώ

Επίκουρη Καθηγήτρια της Σχολής Θετικών Επιστημών και Τεχνολογίας

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Ακαδημαϊκές δραστηριότητες:

- Διδασκαλία και συντονισμός ΘΕ και ΕΘΕ σε προπτυχιακά και μεταπτυχιακά προγράμματα σπουδών του ΕΑΠ και του Παν/μίου Πατρών.
- Επίβλεψη διπλωματικών εργασιών και διδακτορικών διατριβών.
- Μέλος στις επιτροπές Ομάδας Εσωτερικής Αξιολόγησης (ΟΜΕΑ) και Ακαδημαϊκών Θεμάτων (ΕΑΘ) της ΣΘΕΤ.
- Βοηθός Διευθυντή του ΠΜΣ «Χημική και Βιομοριακή Ανάλυση».
- Μέλος της Ακαδημαϊκής Επιτροπής Εποπτείας του νέου ΠΜΣ «Επιδημιολογία»
- Μέλος του Επιστημονικού Συμβουλίου του Εργαστηρίου Εκπαιδευτικού Υλικού & Εκπαιδευτικής Μεθοδολογίας (ΕΕΥΕΜ).
- Μέλος της Επιτροπής Ηθικής και Δεοντολογίας της Έρευνας (Ε.Η.Δ.Ε) του Ελληνικού Ανοικτού Πανεπιστημίου.
- Πιστοποιημένη Αξιολογήτρια-Εμπειρογνώμων του ΕΛ.ΙΔ.Ε.Κ
- Αξιολογήτρια ερευνητικών προτάσεων/αιτήσεων υποτροφίας ΙΚΥ.
- Κριτής σε διεθνή επιστημονικά περιοδικά.

Διδασκαλία

- Συντονισμός και διδασκαλία στην ετήσια ΘΕ ΦΥΕ31 του Προπτυχιακού Προγράμματος Σπουδών «Σπουδές στις Φυσικές Επιστήμες».
- Συντονισμός της ΕΘΕ Βιολογίας του Προπτυχιακού Προγράμματος Σπουδών «Σπουδές στις Φυσικές Επιστήμες»
- Διδάσκουσα στην εξαμηνιαία ΘΕ ΧΒΑ51 «Σύγχρονα Θέματα Εφαρμοσμένης Μοριακής Βιολογίας» του Μεταπτυχιακού Προγράμματος Σπουδών «Χημική και Βιομοριακή Ανάλυση» του ΕΑΠ.
- 2015-σήμερα: Διδάσκουσα στη «Μοριακή Ιατρική», Διατμηματικό Μεταπτυχιακό Πρόγραμμα Σπουδών «Ιατρική Χημεία και Χημική Βιολογία» των Τμημάτων Ιατρικής και Χημείας του Παν/μίου Πατρών.
- 2007-2008: Εξωτερική διδάσκουσα (Π.Δ.407/80), στο Τμήμα Επιστήμης των Υλικών του Παν/μιου Πατρών.
- 2005-2006, 2006-2007 και 2007-2008: Εξωτερική Διδάσκουσα (Π.Δ.407/80), στο Τμήμα Φαρμακευτικής του Παν/μιου Πατρών.
- 2002-2003: Εξωτερική Διδάσκουσα (Π.Δ.407/80), στο Τμήμα Μοριακής Βιολογίας και Γενετικής του Δημοκρίτειου Παν/μιου Θράκης.

Έρευνα:

37 Δημοσιευμένες εργασίες σε διεθνή επιστημονικά περιοδικά με σύστημα κριτών

μέσος όρος *impact factor* ανά δημοσίευση 4,99

3 κεφάλαια σε διεθνείς τόμους και πάνω από 50 συμμετοχές σε διεθνή και ελληνικά συνέδρια.

Εκπαιδευτική έρευνα:

Ανάπτυξη και αξιολόγηση του εκπαιδευτικού λογισμικού Onlabs (<https://sites.google.com/site/onlabseap/about>), το οποίο αποτελεί έναν εικονικό κόσμο προσομοίωσης του εργαστηρίου βιολογίας, των οργάνων του και των λοιπών αντικειμένων του.

Ερευνητικά Ενδιαφέροντα στον τομέα των Βιοεπιστημών:

Μελέτη κλινικών διαταραχών του ανθρώπου με γενετική και επιγενετική συνιστώσα. Εντοπισμός γονιδιωματικών παραλλαγών και καθορισμός του πρότυπου μεθυσίωσης κρίσιμων ρυθμιστικών γονιδιακών περιοχών με τεχνολογία Pyrosequencing. Πρωτόκολλα ανοσοκατακρίμησης χρωματίνης (ChIP, ChIP-seq). Ανίχνευση μη κωδικοποιητικών RNAs (lncRNAs, miRNAs) με τεχνολογία Next generation Sequencing (NGS). Μελέτη της μεταγραφικής ρύθμισης μέσω επιγενετικών μηχανισμών. Πρωτόκολλα ποσοτικής PCR πραγματικού χρόνου (quantitative Real Time PCR, digital PCR). Βιοτεχνολογικές παρεμβάσεις και κατασκευή γονιδιακών φορέων για τη δημιουργία διαγονιδιακών ευκαρυωτικών καλλιεργειών. Εφαρμογές μικροσκοπίας φθορισμού και κυτταρομετρίας ροής (FACS-cell sorting).

Ενδεικτικές δημοσιεύσεις (τελευταία 5ετία)

1. Symeonidis A, Chatziligeroudi T, Chondrou V & **Sgourou A**: “Contingent synergistic interactions between non-coding RNAs and DNA-methyl-transferases to promote progression to Myelodysplastic Syndrome”, International Journal of Molecular Sciences, Special Issue "Issue Advances in Molecular Research and Novel Diagnostic Technics of Hematological Malignancies", J. Mol. Sci. 2022, 23, 16069. <https://doi.org/10.3390/ijms232416069>. (IF: 6.208)
2. Chondrou V, Shaukat A-N, Psarias G, Athanasopoulou K, Iliopoulou E, Damanaki A, Stathopoulos C, **Sgourou A**. “LRF promotes indirectly advantageous chromatin conformation via BGLT3-lncRNA expression and switch from fetal to adult hemoglobin”. International Journal of Molecular Sciences, Special Issue "Regulation of Erythropoiesis 3.0". Int. J. Mol. Sci. 2022, 23(13), 7025; <https://doi.org/10.3390/ijms23137025>. (IF: 6.208)
3. Kostara M, Chondrou V, Fotopoulos V, **Sgourou A**, Tsabouri S. “Epigenetic/Genetic variations in CG-rich elements of immune-related genes contribute to food allergy development during childhood”. Pediatric Allergy and Immunology. 2022. DOI: 10.1111/PAI.13812 (IF: 5.464)
4. Karachaliou C, **Sgourou A**, Kakkos S, Kalavrouziotis I. “Arsenic exposure promotes the emergence of cardiovascular diseases. Rev Environ Health. 2021 Jul 12. doi: 10.1515/reveh-2021-0004. PMID: 34253004. (IF: 4.022)
5. Mulita F, Verras GI, Iliopoulos F, Kaplanis C, Liolis E, Tchabashvili L, Tsilivigkos C, Perdikaris I, **Sgourou A**, Papachatzopoulou A, Maroulis I. “Analgesic effect of paracetamol monotherapy vs the combination of paracetamol/parecoxib vs the combination of pethidine/paracetamol in patients undergoing thyroidectomy”. Prz Menopauzalny. 2021 Dec;20(4):226-230. doi: 10.5114/pm.2021.110955. Epub 2021 Nov 24. PMID: 35069077. (IF: 2.205)
6. Chondrou V, Markopoulos GS, Patrinos GP, Kouraklis-Symeonidis A, Symeonidis A, Papachatzopoulou A, **Sgourou A**. “LRF/ZBTB7A conservation accentuates its potential as a

- therapeutic target for the hematopoietic disorders". *Gene*. 2020 Nov 15;760:145020. doi: 10.1016/j.gene.2020.145020. Epub 2020 Aug 2. PMID: 32755656. (IF: 3.913)
7. Kostara M, Chondrou V, **Sgourou A**, Douros K, Tsabouri S. "HLA Polymorphisms and Food Allergy Predisposition". *J Pediatr Genet*. 2020 Jun;9(2):77-86. doi: 10.1055/s-0040-1708521. Epub 2020 Apr 1. PMID: 32341809 Review. (IF: 1.089)
 8. Constantinou C, Spella M, Chondrou V, Patrinos GP, Papachatzopoulou A and **Sgourou A**: A. "The multi-faceted functioning portrait of LRF/ZBTB7A". *Hum Genomics*. 2019 Dec 10;13(1):66. doi: 10.1186/s40246-019-0252-0. Review. PubMed PMID: 31823818. (IF: 6.481)
 9. Stratopoulos A, Kolliopoulou A, Karamperis K, John A, Kydonopoulou K, Esfathiou G, **Sgourou A**, Kourakli A, Vlachaki E, Chalkia P, Theodoridou S, Papadakis MN, Gerou S, Symeonidis A, Katsila T, Ali BR, Papachatzopoulou A, Patrinos GP. "Genomic variants in members of the Krüppel-like factor gene family are associated with disease severity and hydroxyurea treatment efficacy in β -hemoglobinopathies patients". *Pharmacogenomics*. 2019 Jul;20(11):791-801. doi: 10.2217/pgs-2019-0063. Epub 2019 Aug 8. PubMed PMID: 31393228. (IF: 2.638)
 10. Kolliopoulou A, Siamoglou S, John A, **Sgourou A**, Kourakli A, Symeonidis A, Vlachaki E, Chalkia P, Theodoridou S, Ali BR, Katsila T, Patrinos GP, Papachatzopoulou A. "Role of Genomic Biomarkers in Increasing Fetal Hemoglobin Levels Upon Hydroxyurea Therapy and in β -Thalassemia Intermedia: A Validation Cohort Study". *Hemoglobin*. 2019 Jan;43(1):27-33. doi: 10.1080/03630269.2019.1597732. Epub 2019 Apr 30. PMID: 31039620. (IF: 0.822)
 11. Chondrou V, Stavrou EF, Markopoulos G, Kouraklis-Symeonidis A, Fotopoulos V, Symeonidis A, Vlachaki E, Chalkia P, Patrinos GP, Papachatzopoulou A, **Sgourou A**. "Impact of ZBTB7A hypomethylation and expression patterns on treatment response to hydroxyurea". *Hum Genomics*. 2018 Oct 1;12(1):45. doi: 10.1186/s40246-018-0177-z. PubMed PMID: 30285874; PubMed Central PMCID: PMC6167880. (IF: 6.481)
 12. Chondrou V, Kolovos P, **Sgourou A**, Kourakli A, Pavlidaki A, Kastrinou V, John A, Symeonidis A, Ali BR, Papachatzopoulou A, Katsila T, Patrinos GP. "Whole transcriptome analysis of human erythropoietic cells during ontogenesis suggests a role of VEGFA gene as modulator of fetal hemoglobin and pharmacogenomic biomarker of treatment response to hydroxyurea in β -type hemoglobinopathy patients". *Hum Genomics*. 2017 Oct 23;11(1):24. doi: 10.1186/s40246-017-0120-8. PubMed PMID: 29061162; PubMed Central PMCID: PMC5654038. (IF: 6.481)
 13. Kolliopoulou A, Stratopoulos A, Siamoglou S, **Sgourou A**, Ali BR, Papachatzopoulou A, Katsila T, Patrinos GP. "Key Pharmacogenomic Considerations for Sickle Cell Disease Patients". *OMICS*. 2017 Jun;21(6):314-322. doi: 10.1089/omi.2017.0058. Epub 2017 May 9. PubMed PMID: 28486096. (IF: 3.978)
 14. Vlaikou AM, Kouroupis D, **Sgourou A**, Markopoulos GS, Bagli E, Markou M, Papadopoulou Z, Fotsis T, Nakos G, Lekka ME, Syrrou M. "Mechanical stress affects methylation pattern of GNAS isoforms and osteogenic differentiation of hAT-MSCs". *Biochim Biophys Acta Mol Cell Res*. 2017 Aug;1864(8):1371-1381. doi: 10.1016/j.bbamcr.2017.05.005. Epub 2017 May 5. PubMed PMID: 28483487. (IF: 5.228)
 15. Stamou P, Marioli D, Patmanidi AL, **Sgourou A**, Vittoraki A, Theofani E, Pierides C, Taraviras S, Costeas PA, Spyridonidis A. "Simple in vitro generation of human leukocyte antigen-G-expressing T-regulatory cells through pharmacological hypomethylation for adoptive cellular immunotherapy against graft-versus-host disease". *Cytotherapy*. 2017 Apr;19(4):521-530. doi: 10.1016/j.jcyt.2017.01.004. Epub 2017 Feb 2. PubMed PMID: 28162915. (IF: 6.196)

16. Eleftheriadou I, Dieringer M, Poh XY, Sanchez-Garrido J, Gao Y, **Sgourou A**, Simmons LE, Mazarakis ND. "Selective transduction of astrocytic and neuronal CNS subpopulations by lentiviral vectors pseudotyped with Chikungunya virus envelope". *Biomaterials*. 2017 Apr;123:1-14. doi: 10.1016/j.biomaterials.2017.01.023. Epub 2017 Jan 23. PubMed PMID: 28152379. (IF: 15.304)

Sgourou Argyro, Assistant Professor, Director of Biology Laboratory

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Current academic activities/positions:

- Teaching duties and coordination of Modules in Undergraduate and Postgraduate Courses at HOU and University of Patras
- Supervisor of MSc dissertations and PhD Thesis
- Member of the committees for Internal Course Evaluation (OMEA) and Academic Affairs of SST, HOU
- Member of the tripartite Academic Committee supervising the new MSc Course “Chemical and Biomolecular Analysis”, SST, HOU.
- Member of the Scientific Board of the “Educational Content Methodology & Technology Laboratory (EEYEM)”, HOU
- Member of the “Research Ethics Committee”, HOU
- Registered as Certified Assessors-Experts of the “Hellenic Foundation for Research and Innovation (HFRI)”
- Evaluation of research proposals for IKY scholarship applications.
- Reviewer for international scientific journals.

Research:

34 original papers and reviews published in international scientific journals (average *impact factor* 3,4), 4 papers pending publication, 3 chapters in international volumes and over 50 abstracts in international and Greek conferences.

Educational Research:

Development and assessment of the Onlabs educational software (<https://sites.google.com/site/onlabseap/about>), which is a simulation (virtual world) of the biology laboratory, lab instruments and objects.

2016-2020: Supervisor of Mrs. Eugenia Paxinou (B.Sc., M.Sc.) during elaboration of Doctoral dissertation, entitled: "Methods of Assessing the Students' Performance upon Utilization of a Virtual Reality Educational Tool for Laboratory Biology Courses".

Research interests

Study of genetic and epigenetic background of human disorders. Detection of genomic variants and determination of methylation patterns across critical regulatory genomic elements by Pyrosequencing technology. Chromatin immunoprecipitation protocols (ChIP, ChIP-seq). Detection of regulatory RNAs (miRNAs). Analysis of genome mutations with Next generation Sequencing (NGS) technology.

Study of epigenetic mechanisms' interrelationship. Study of gene's expression transcriptional regulation. Quantitative Real Time PCR protocols.

Biotechnological interventions and construction of vectors carrying exogenous genes for transgenic cultures development. Fluorescence microscopy and flow cytometry (FACS-cell sorting) applications.

Teaching activities

- Molecular Biology and Genetics Department, Democritus University of Thrace (2002-3)
- Department of Pharmacy (2006-8), University of Patras
- Department of Materials Science (2008), University of Patras
- Undergraduate Course "Studies in Physical Sciences" (2016-2020), SST, HOU
- Postgraduate Module «Current Topics in Applied Molecular Biology» of the MSc Course: "Chemical and Biomolecular Analysis", (2019-2020) SST, HOU
- Postgraduate Course (MSc): "Medicinal Chemistry: Drug Discovery and Design" (2015-20), Chemistry and Medical Departments, University of Patras

Recent publications (2012 onwards)

1. Paxinou E, Kalles D, Panagiotakopoulos TC, Sgourou A and Verykios SV. (2021). "An IRT-Based Approach to Assess the Learning Gain of a Virtual Reality Lab Students' Experience". *Intelligent Decision Technologies*, vol. 15, no. 3, pp. 487-496. DOI: 10.3233/IDT-200216
2. Karachaliou C, Sgourou A, Kakkos S, Kalavrouziotis I. Arsenic exposure promotes the emergence of cardiovascular diseases. *Rev Environ Health*. 2021 Jul 12. doi: 10.1515/reveh-2021-0004. Epub ahead of print. PMID: 34253004.
3. Mulita F, Verras GI, Iliopoulos F, Kaplanis C, Liolis E, Tchabashvili L, Tsilivigkos C, Perdikaris I, Sgourou A, Papachatzopoulou A, Maroulis I. "Analgesic effect of paracetamol monotherapy vs the combination of paracetamol/parecoxib vs the combination of pethidine/paracetamol in patients undergoing thyroidectomy". *Prz Menopauzalny*. 2021 Dec;20(4):226-230. doi: 10.5114/pm.2021.110955. Epub 2021 Nov 24. PMID: 35069077.
4. Paxinou E, Panagiotakopoulos CT, Karatrantou A, Kalles D, Sgourou A. (2020). "Implementation and Evaluation of a Three-Dimensional Virtual Reality Biology Lab versus Conventional Didactic Practices in Lab Experimenting with the Photonic Microscope". *Biochem Mol Biol Educ*. doi: 10.1002/bmb.21307. PubMed PMID: 31566881.
5. Chondrou V, Markopoulos GS, Patrinos GP, Kouraklis-Symeonidis A, Symeonidis A, Papachatzopoulou A, Sgourou A. LRF/ZBTB7A conservation accentuates its potential as a therapeutic target for the hematopoietic disorders. *Gene*. 2020 Nov 15;760:145020. doi: 10.1016/j.gene.2020.145020. Epub 2020 Aug 2. PMID: 32755656
6. Kostara M, Chondrou V, Sgourou A, Douros K, Tsaouri S. HLA Polymorphisms and Food Allergy Predisposition. *J Pediatr Genet*. 2020 Jun;9(2):77-86. doi: 10.1055/s-0040-1708521. Epub 2020 Apr 1. PMID: 32341809 Review.

7. Constantinou C, Spella M, Chondrou V, Patrinos GP, Papachatzopoulou A and Sgourou A: A. The multi-faceted functioning portrait of LRF/ZBTB7A. *Hum Genomics*. 2019 Dec 10;13(1):66. doi: 10.1186/s40246-019-0252-0. Review. PubMed PMID: 31823818.
8. Stratopoulos A, Kolliopoulou A, Karamperis K, John A, Kydonopoulou K, Esfathiou G, Sgourou A, Kourakli A, Vlachaki E, Chalkia P, Theodoridou S, Papadakis MN, Gerou S, Symeonidis A, Katsila T, Ali BR, Papachatzopoulou A, Patrinos GP. Genomic variants in members of the Krüppel-like factor gene family are associated with disease severity and hydroxyurea treatment efficacy in β -hemoglobinopathies patients. *Pharmacogenomics*. 2019 Jul;20(11):791-801. doi: 10.2217/pgs-2019-0063. Epub 2019 Aug 8. PubMed PMID: 31393228.
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10. Chondrou V, Stavrou EF, Markopoulos G, Kouraklis-Symeonidis A, Fotopoulos V, Symeonidis A, Vlachaki E, Chalkia P, Patrinos GP, Papachatzopoulou A, Sgourou A. Impact of ZBTB7A hypomethylation and expression patterns on treatment response to hydroxyurea. *Hum Genomics*. 2018 Oct 1;12(1):45. doi: 10.1186/s40246-018-0177-z. PubMed PMID: 30285874; PubMed Central PMCID: PMC6167880.
11. Chondrou V, Kolovos P, Sgourou A, Kourakli A, Pavlidaki A, Kastrinou V, John A, Symeonidis A, Ali BR, Papachatzopoulou A, Katsila T, Patrinos GP. Whole transcriptome analysis of human erythropoietic cells during ontogenesis suggests a role of VEGFA gene as modulator of fetal hemoglobin and pharmacogenomic biomarker of treatment response to hydroxyurea in β -type hemoglobinopathy patients. *Hum Genomics*. 2017 Oct 23;11(1):24. doi: 10.1186/s40246-017-0120-8. PubMed PMID: 29061162; PubMed Central PMCID: PMC5654038.
12. Kolliopoulou A, Stratopoulos A, Siamoglou S, Sgourou A, Ali BR, Papachatzopoulou A, Katsila T, Patrinos GP. Key Pharmacogenomic Considerations for Sickle Cell Disease Patients. *OMICS*. 2017 Jun;21(6):314-322. doi: 10.1089/omi.2017.0058. Epub 2017 May 9. PubMed PMID: 28486096.
13. Vlaikou AM, Kouroupis D, Sgourou A, Markopoulos GS, Bagli E, Markou M, Papadopoulos Z, Fotsis T, Nakos G, Lekka ME, Syrrou M. Mechanical stress affects methylation pattern of GNAS isoforms and osteogenic differentiation of hAT-MSCs. *Biochim Biophys Acta Mol Cell Res*. 2017 Aug;1864(8):1371-1381. doi: 10.1016/j.bbamcr.2017.05.005. Epub 2017 May 5. PubMed PMID: 28483487.
14. Stamou P, Marioli D, Patmanidi AL, Sgourou A, Vittoraki A, Theofani E, Pierides C, Taraviras S, Costeas PA, Spyridonidis A. Simple in vitro generation of human leukocyte antigen-G-expressing T-regulatory cells through pharmacological hypomethylation for adoptive cellular immunotherapy against graft-versus-host disease. *Cytotherapy*. 2017 Apr;19(4):521-530. doi: 10.1016/j.jcyt.2017.01.004. Epub 2017 Feb 2. PubMed PMID: 28162915.
15. Eleftheriadou I, Dieringer M, Poh XY, Sanchez-Garrido J, Gao Y, Sgourou A, Simmons LE, Mazarakis ND. Selective transduction of astrocytic and neuronal CNS subpopulations by lentiviral vectors pseudotyped with Chikungunya virus envelope. *Biomaterials*. 2017 Apr;123:1-14. doi: 10.1016/j.biomaterials.2017.01.023. Epub 2017 Jan 23. PubMed PMID: 28152379.
16. Gravia A, Chondrou V, Kolliopoulou A, Kourakli A, John A, Symeonidis A, Ali BR, Sgourou A, Papachatzopoulou A, Katsila T, Patrinos GP. Correlation of SIN3A genomic variants with β -

hemoglobinopathies disease severity and hydroxyurea treatment efficacy. *Pharmacogenomics*. 2016 Nov;17(16):1785-1793. doi: 10.2217/pgs-2016-0076. Epub 2016 Oct 21. PubMed PMID: 27767389.

17. Chalikiopoulou C, Tavianatou AG, Sgourou A, Kourakli A, Kelepouri D, Chrysanthakopoulou M, Kanelaki VK, Mourdoukoutas E, Siamoglou S, John A, Symeonidis A, Ali BR, Katsila T, Papachatzopoulou A, Patrinos GP. Genomic variants in the ASS1 gene, involved in the nitric oxide biosynthesis and signaling pathway, predict hydroxyurea treatment efficacy in compound sickle cell disease/ β -thalassemia patients. *Pharmacogenomics*. 2016 Mar;17(4):393-403. doi: 10.2217/pgs.16.1. Epub 2016 Feb 19. PubMed PMID: 26895070.
18. Gravia A, Chondrou V, Sgourou A, Papantoni I, Borg J, Katsila T, Papachatzopoulou A, Patrinos GP. Individualizing fetal hemoglobin augmenting therapy for β -type hemoglobinopathies patients. *Pharmacogenomics*. 2014 Jul;15(10):1355-64. doi: 10.2217/pgs.14.101. Review. PubMed PMID: 25155936.
19. Tralbalza A, Eleftheriadou I, Sgourou A, Liao TY, Patsali P, Lee H, Mazarakis ND. Enhanced central nervous system transduction with lentiviral vectors pseudotyped with RVG/HIV-1gp41 chimeric envelope glycoproteins. *J Virol*. 2014 Mar;88(5):2877-90. doi: 10.1128/JVI.03376-13. Epub 2013 Dec 26. PubMed PMID: 24371049; PubMed Central PMCID: PMC3958067.
20. Sgourou A, Fotopoulos V, Kontos V, Patrinos GP, Papachatzopoulou A. Association of genome variations in the renin-angiotensin system with physical performance. *Hum Genomics*. 2012 Nov 24;6:24. doi: 10.1186/1479-7364-6-24. PubMed PMID: 23176367; PubMed Central PMCID: PMC3543191.