

## CURRICULUM VITAE

### Levon Yepiskoposyan

apt.61, bld.14, Baghramyan Av., First Blind Alley, Yerevan, 0019, Armenia

Tel.: (+374 10) 580 707 (home), (+374 93) 35 24 21 (mob.)

e-mail: *lepiskop@sci.am*

#### **Born:**

Kirovabad, Azerbaijan

11.11.1951

#### **Education:**

Master of Science	Diploma	Moscow State University Major: Physical Anthropology	June 1974
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#### **Academic Profile:**

PhD (Candidate of Science)	Diploma	Moscow State University	June 1978
Doctor of Science	Diploma	Institute of General Genetics, Russian Academy of Sciences, Moscow, Russia	June 1989

#### **Work Experience:**

*Since November 2007*

head, Laboratory of Ethnogenomics,  
Institute of Molecular Biology,  
National Academy of Sciences, Armenia

*Since 2009*

Lecturer, Professor,  
Russian-Armenian (Slavonic) University

*April 1991- to present:*

head, Laboratory of Anthropology,  
Chairman, "Institute of Man",  
Independent Research Unit

*October 1995 – October 1996*

rector, Artsakh State University,  
Republic of Nagorno Karabagh

*Since September 1981*

lecturer, Professor,  
Yerevan State University

*July 1978 – April 1991*

senior researcher associate,  
Yerevan State Medical University

*Since 2002 – to present:*

co-director of Azokh Cave  
excavation team

#### **Academic visits:**

- One-week academic visit to the Department of Anthropology, Free University of Brussels, Belgium (1992)
- One-month academic visit to the Institute of Anthropology, University of Florence, Italy (1998)

- Two-week academic visit to the Basic Medical Sciences Laboratory, National Research Centre, Cairo, Egypt (1998)
- 6-month academic visit to the Centre for Genetic Anthropology, University College London, UK (1999)
- Two-week academic visits to the Centre for Genetic Anthropology, University College London, UK (2002, 2004, 2006, 2009)
- One-week academic visits to Tehran University of Medical Sciences (2003, 2005)
- Two-week academic visit to the Institute of Anthropology, University of Florence, Italy (2005)
- Three-month academic visit to the University of Tarragona, Spain (2009)

***Lectures on genetic history of human populations delivered for the Diaspora Armenian communities:***

- London (UK) – 1999, 2002
- Krasnodar (Russia) – 2003, 2007, 2010
- Moscow, St Petersburg (Russia) – 2010
- Rostov-on-Don region (Russia) – 2012
- Detroit area (USA) – 2003
- Tehran, Isfahan (Iran) – 2003, 2005

***Honors, awards, scholarships:***

- Award of Excellence at secondary school
- Soros Foundation Award for Scientific Achievements, 1993
- Royal Society (UK) extra-quota scholarship for short-term academic visit to UK, 1999
- EU "Erasmus Mundus" scholarship in "Quaternary and Prehistory" to third-country scholars, 2009

***Command of foreign languages:***

- Russian – as native language
- English – fluent
- French – good knowledge

**LIST OF SELECTED PUBLICATIONS**

- Weale M.E., Yepiskoposyan L., Jager R.F., Hovhannisyan N., Khudoyan A., Burbage-Hall O., Bradman N., Thomas M. (2001) Armenian Y chromosome haplotypes reveal strong regional structure within a single ethno-national group. *Human Genetics*, 109(6): 659-674.
- Yepiskoposyan L.M., Oganessian N.A., Khudoyan A.Ts. (2001) Variation in Short Tandem Repeats of Human Y Chromosome. *Russian Journal of Genetics*, 37(8): 926-931.
- King T., Fernandez-Jalvo Y., Moloney N., Andrews P., Melkonyan A., Yepiskoposyan L., Karapetyan S. Exploration and survey of Pleistocene Hominide sites in Armenia and Karabagh. *Antiquity*, 2003, v.77, N 295. <http://antiquity.ac.uk/ProjGall/King/king.html#king>.
- Fernandez-Jalvo Y., King T., Andrews P., Moloney N., Dietchfield P., Yepiskoposyan L., Safarian V., Nieto-Diaz M., Melkonyan A. (2004) Azokh Cave and Northern Armenia. - In: Enrique Baquedano & Susana Rubio Jara

- (Eds). *Miscelanea en homenaje a Emiliano Aguirre*. Vol.IV, Arqueologia. Museo Arqueologico Regional, Alcalá de Henares, 158-168.
- Andonian L., Khorramizadeh M.R., Farhud D.D., Hashemzadeh Chaleshton M., Holakuie Naieni K., Razi A., Sanadizadeh J., Pourmand G., Nouraie M., Rezaie S., Saadat F., Yepiskoposyan L., Norouzi M., Soleimanpour H., Berahme A., Aalizadeh N. (2005) Molecular detection of prostate specific antigene in patients with prostate cancer or benign prostate hyperplasia: The first investigation from Iran. *Iranian J Publ Health*, 34(3): 20-26.
  - Yepiskoposyan L., Harutyunyan A., Khudoyan A. (2006) T. Genetic testing of language replacement hypothesis in Southwest Asia. *Iran and the Caucasus*, 10(2): 191-208.
  - Hakobyan M., Mkrtchyan A., Yepiskoposyan L. (2006) Infant mortality in Armenia, 1992–2003. *Economics and Human Biology*, 4(3): 351-358.
  - Hakobyan M., Mkrtchyan A., Yepiskoposyan L. (2007) Infant mortality in Armenia, 1992–2003. Reply to G. Redmond. *Economics and Human Biology*, 5(2): 355-356.
  - Yepiskoposyan L., Harutyunyan A. (2007) Population genetics of familial Mediterranean fever: a review. *European Journal of Human Genetics*, 15(9): 911-916.
  - Yepiskoposyan L., Harutyunyan A. (2008) Molecular genetics of familial Mediterranean fever. In: *Encyclopedia of Life Sciences (ELS)*. John Wiley & Sons, Ltd: Chichester. DOI: 10.1002/9780470015902.a0021442
  - Harutyunyan A., Khudoyan A., Yepiskoposyan L. (2009) Patrilocality and recent migrations have little impact on shaping patterns of genetic structure of the Armenian population. *Russian Journal of Genetics*, 45: 987-993.
  - Маргарян А.В., Арутюнян А.С., Джордан Ф., Авакян С.О., Аведян В.М., Газарянц Р.З., Етимян З.А., Карапетян В.Э., Назаретян Н.К., Юсян А.А., Епископосян Л.М. (2009) Армянский регистр доноров костного мозга: некоторые аспекты научно-практической деятельности. *Гематология и трансфузиология*, 54(4): 28-32.
  - Hakobyan M., Yepiskoposyan L. (2009) Infant mortality decline in Armenia: Why with uneven rates? *Economics and Human Biology*, 2010, 8: 134-137. doi:10.1016/j.ehb.2009.07.001
  - Fernández-Jalvo Y., Hovsepian-King T., Moloney N., Yepiskoposyan L., Andrews P., Murray J., Safarian V., Asryan L., Nieto Díaz M., Domínguez-Alonso P., Marín Monfort M.D., Mkrtichyan E., Smith C., Bessa Correia V., Dietchfield P., Geigl E.-M., van der Made J., Torres T., Scott L., Allue E., Cáceres I., Sevilla P., Hardy K., Grün R., Melkonyan A., Campos R., Sanz Martín T., Hayrabetyan H, Balasanyan G. (2009) XVII. Azokh Caves excavations 2002-2006. Middle upper Palaeolithic transition in Nagorno-Karabagh En: *LOBÓN-CERVÍA, J. y MORALES, J. (comps.): /Notas para la historia reciente del Museo Nacional de Ciencias Naturales. Homenaje a María Dolores Soria Mayor/*. Madrid, Monografías del CSIC: 325-338 & 403-410.
  - Fernandez-Jalvo Y., King T., Andrews P., Yepiskoposyan L., Moloney N., Murray J., Dominguez-Alonso P., Asryan L., Dietchfield P., van der Made J., Torres T., Sevilla P., Nieto M., Caceres I., Allue E., Marin D., Sanz T. (2010) Azokh caves. Middle-late Pleistocene and Holocene in the Caucasus. *Excavations 2002-2007. Journal of Human Evolution*, 58: 103-109.

- Yepiskoposian L., Margarian A., Andonian L., Khudoian A., Harutyunian A. (2010) Genetic affinity between the Armenian Yezidis and the Iraqi Kurds. *Iran and the Caucasus*, 14(1): 37-42.
- Murray J., Dominguez-Alonso P., Fernandez-Jalvo Y., King T., Lynch E.P., Andrews P., Yepiskoposyan L., Moloney N., Caceres I., Allue E., Asryan L., Ditchfield P. and Williams D.M. (2010) Pleistocene to Holocene stratigraphy of Azokh 1 Cave, Lesser Caucasus. *Irish Journal of Earth Sciences*, 28: 75–91. doi: 10.3318/IJES.2010.28.75
- Andonian L., Rezaie S., Margaryan A., Farhud D.D., Mohammad K., Holakouie Naieni K., Khorammizadeh M.R., Sanati M.H., Jamali M., Bayatian P., Yepiskoposyan L. (2011) Iranian Azeris' Y-chromosomal diversity in the context of Turkish-speaking populations of the Middle East. *Iranian Journal of Public Health*, 40(1): 119-123.
- Lowery R.K., Herrera K.J., Simms T.M., Barnett D.A., Rodriguez R., Yepiskoposyan L. and Herrera R.J. (2011) Regionalized Autosomal STR Profiles Among Armenian Groups Suggest Disparate Genetic Influences. *American Journal of Physical Anthropology*, 146: 171-178 (DOI 10.1002/ajpa.21558).
- Yepiskoposyan L., Margarian A., Andonian L., Rashidvash V. (2011) Location of Azeris on the patrilineal genetic landscape of the Middle East (a preliminary report). *Iran and the Caucasus*, 15(1-2): 73-78.
- Yunusbayev B., Metspalu M., Järve M., Kutuev I., Rootsi S., Metspalu E., Behar D.M., Varendi K., Sahakyan H., Khusainova R., Yepiskoposyan L., Khusnutdinova E.K., Underhill P.A., Kivisild T., and VILLEMS R. (2012) The Caucasus as an asymmetric semipermeable barrier to ancient human migrations. *Molecular Biology and Evolution*, 29 (1): 359-365; doi:10.1093/molbev/msr221
- Herrera K.J., Lowery R.K., Hadden L., Calderon S., Chiou C., Yepiskoposyan L., Regueiro M., Underhill P.A., and Herrera R.J. (2011) Neolithic patrilineal signals indicate that the Armenian plateau was repopulated by agriculturalists. *European Journal of Human Genetics*, advance online publication, 16 November 2011; doi:10.1038/ejhg.2011.192
- Margaryan A., Harutyunyan A., Khachatryan Z. and Yepiskoposyan L. (2011) HLA allele and haplotype frequencies in the Armenian population: evidence of Mediterranean origin. *International Journal of Anthropology*, 26(3-4): 195-210.
- Yunusbayev B., Metspalu M., Järve M., Kutuev I., Rootsi S., Metspalu E., Behar D.M., Varendi K., Sahakyan H., Khusainova R., Yepiskoposyan L., Khusnutdinova E.K., Underhill P.A., Kivisild T., and VILLEMS R. (2012) The Caucasus as an asymmetric semipermeable barrier to ancient human migrations. *Molecular Biology and Evolution*, 29 (1): 359-365; doi:10.1093/molbev/msr221
- Herrera K.J., Lowery R.K., Hadden L., Calderon S., Chiou C., Yepiskoposyan L., Regueiro M., Underhill P.A., and Herrera R.J. (2012) Neolithic patrilineal signals indicate that the Armenian plateau was repopulated by agriculturalists. *European Journal of Human Genetics*, 20: 313-320; doi:10.1038/ejhg.2011.192
- Rootsi S., Myres N.M., Lin A.A., Järve M., King R.J., Kutuev I., Cabrera V.M., Khusnutdinova E.K., Varendi K., Sahakyan H., Behar D.M., Khusainova R., Balanovsky O., Balanovska E., Rudan P., Yepiskoposyan L., Bahmanimehr A., Farjadian S., Kushniarevich A., Herrera R. J., Grugni V., Battaglia V., Nici C., Crobu F., Karacanak S., Hushiar Kashani B., Houshmand M., Sanati M.

- H., Toncheva D., Lisa A., Semino O., Chiaroni J., Di Cristofaro J., Villems R., Kivisild T., and Underhill P. A. (2012) Distinguishing co-ancestries of European and Caucasian human Y-chromosomes within haplogroup G. *European Journal of Human Genetics*, 20: 1275-1282; doi:10.1038/ejhg.2012.86
- Margaryan A., Harutyunyan A., Khachatryan Z., Khudoyan A., and Yepiskoposyan L. (2012) Paternal lineage analysis supports an Armenian rather than a Central Asian genetic origin of the Hamshenis. *Human Biology*, 84 (4): 405-422. (<http://digitalcommons.wayne.edu/humbiol/vol84/iss4/2>)
  - Теучеж И.Э., Почешхова Э.А., Схаляхо Р.А., Дибирова Х.Д., Агджоян А.Т., Утевская О.М., Кузнецова М.А., Богунов Ю.В., Шанько А.В., Коньков А.С., Чиковани Н.Н., Андриадзе Г., Епископосян Л.М., Балановская Е.В., Балановский О.П. (2013) Сравнительный анализ генофондов абхазо-адыгских народов западного Кавказа и Закавказья в евразийском контексте. *Вестн. Моск. ун-та. Сер. XXIII. Антропология*, № 2, с. 49–62.
  - Margaryan A., Khachatryan Z., Khudoyan A., Andonian L., and Yepiskoposyan L. (2013) Assessment of patrilineal gene pool of the Iranian Azeris. *Russian Journal of Genetics*, 49(10): 1065-1071.
  - Derenko M., Malyarchuk B., Bahmanimehr A., Denisova G., Perkova M., Farjadian S., Yepiskoposyan L. (2013) "Complete mitochondrial DNA diversity in Iranians". *PLOS ONE*, 8(11): e80673. doi:10.1371/journal.pone.0080673
  - Behar D.M., Metspalu M., Baran Y., Kopelman N. M., Yunusbayev B., Gladstein A., Tzur S., Sahakyan H., Bahmanimehr A., Yepiskoposyan L., Tambets K., Khusnutdinova E.K., Kushniarevich A., Balanovsky O., Balanovsky E., Kovacevic L., Marjanovic D., Mihailov E., Kouvatsi A., Triantaphyllidis C., King R.J., Semino O., Torroni A., Hammer M.F., Metspalu E., Skorecki K., Rosset S., Halperin E., Villems R., Rosenberg N.A. (2013) No evidence from genome-wide data of a Khazar origin for the Ashkenazi Jews. *Human Biology*, 85(6): 859-887.
  - Епископосян Л.М., Маргарян А.В., Хачатрян З.А., Худоян А.Ц. Оганесян А.А., Оганесян Г.Г, Погосян А.С. (2014) Популяционная генетика в решении вопросов этногенеза армян. // Этнос и среда обитания. Сборник статей по этноэкологии. Вып. 4. М.: Старый сад, с. 198-207.
  - Novhannisyan A., Yepiskoposyan L. (2014) Role of the Armenian highland in the Neolithic migration of Homo sapiens from the Near East to Europe. *Int J Anthropol*, 29(3): 171-182.
  - Derenko M., Malyarchuk B., Bahmanimehr A., Denisova G., Perkova M., Farjadian S., Yepiskoposyan L. (2013) "Complete mitochondrial DNA diversity in Iranians". *PLOS ONE*, 8(11): e80673. doi:10.1371/journal.pone.0080673
  - Lazaridis I, Patterson N, Mitnik A, Renaud G, Mallick S, Kirsanow K, Sudmant PH, Schraiber JG, Castellano S, Lipson M, Berger B, Economou C, Bollongino R, Fu Q, Bos KI, Nordenfelt S, Li H, de Filippo C, Prüfer K, Sawyer S, Posth C, Haak W, Hallgren F, Fornander E, Rohland N, Delsate D, Francken M, Guinet JM, Wahl J, Ayodo G, Babiker HA, Bailliet G, Balanovska E, Balanovsky O, Barrantes R, Bedoya G, Ben-Ami H, Bene J, Berrada F, Bravi CM, Brisighelli F, Busby GB, Cali F, Churnosov M, Cole DE, Corach D, Damba L, van Driem G, Dryomov S, Dugoujon JM, Fedorova SA, Gallego Romero I, Gubina M, Hammer M, Henn BM, Hervig T, Hodoglugil U, Jha AR,

- Karachanak-Yankova S, Khusainova R, Khusnutdinova E, Kittles R, Kivisild T, Klitz W, Kučinskas V, Kushniarevich A, Laredj L, Litvinov S, Loukidis T, Mahley RW, Melegh B, Metspalu E, Molina J, Mountain J, Näkkäläjärvi K, Nesheva D, Nyambo T, Osipova L, Parik J, Platonov F, Posukh O, Romano V, Rothhammer F, Rudan I, Ruizbakiev R, Sahakyan H, Sajantila A, Salas A, Starikovskaya EB, Tarekegn A, Toncheva D, Turdikulova S, Uktveryte I, Utevska O, Vasquez R, Villena M, Voevoda M, Winkler CA, Yepiskoposyan L, Zalloua P, Zemunik T, Cooper A, Capelli C, Thomas MG, Ruiz-Linares A, Tishkoff SA, Singh L, Thangaraj K, VILLEMS R, Comas D, Sukernik R, Metspalu M, Meyer M, Eichler EE, Burger J, Slatkin M, Pääbo S, Kelso J, Reich D, Krause J. (2014) Ancient human genomes suggest three ancestral populations for present-day Europeans. *Nature*, 2014 (Sep 18) 513 (7518): 409-413. doi: 10.1038/nature13673.
- Hovhannisyan A., Khachatryan Z., Haber M., Hrechdakian P., Karafet T., Zalloua P., Yepiskoposyan L. (2014) Different waves and directions of Neolithic migrations in the Armenian Highland. *Investigative Genetics*, 5: 15 (11 pages). doi:10.1186/s13323-014-0015-6
  - Balanovsky O., Zhabagin M., Agdzhoyan A., Chukhryaeva M., Zaporozhchenko V., Utevska O., Highnam G., Sabitov Zh., Greenspan E., Dibirova Kh., Skhalyakho R., Kuznetsova M., Koshel S., Yusupov Yu., Nymadawa P., Zhaxybay Zh., Pocheshkhova E., Haber M., Zalloua P.A., Yepiskoposyan L., Dybo A., Tyler-Smith Ch., Balanovska E. (2015) Deep phylogenetic analysis of haplogroup G1 provides estimates of SNP and STR mutation rates on the Y-chromosome and reveals migrations of Iranic speakers. *PLoS ONE*, 10(4): e0122968. doi: 10.1371/journal.pone.0122968
  - Yunusbayev B., Metspalu M., Metspalu E., Valeev A., Litvinov S., Valiev R., Akhmetova V., Balanovsky O., Shahlo Turdikulova, Dilbar Dalimova, Pagbajabyn Nymadawa, Bahmanimehr A., Sahakyan H., Tambets K., Fedorova S.A., Nikolay Barashkov, Irina Khidiyatova, Mihailov E., Rita Khusainova, Damba L.D., Derenko M., Boris Malyarchuk, Osipova L., Voevoda M., P., Yepiskoposyan L., Kivisild T., Khusnutdinova E.K., VILLEMS R. (2013) The genetic legacy of the expansion of Turkic-speaking nomads across Eurasia. *PLoS Genetics*, 11(4): e1005068. doi:10.1371/journal.pgen.1005068
  - Underhill P.A., Poznik G.D., Rootsi S., Järve M., Lin A.A, Wang J., Passarelli B., Kanbar J., Myres N.M, King R.J., Di Cristofaro J., Sahakyan H., Behar D.M., Kushniarevich A., Šarac J., Šaric T., Kumar Pathak A., Chaubey G., Grugni V., Semino O., Yepiskoposyan L., Bahmanimehr A., Balanovsky O., Khusnutdinova E.K., Herrera R.J., Chiaroni J., Bustamante C.D., Quake S.R., Kivisild T., VILLEMS R. (2015) Emergence of geographic sub-structure in the Y chromosome haplogroup R1a. *Eur J Hum Genet*, 23(1): 124-131. doi:10.1038/ejhg.2014.50
  - Karmin M, Saag L, Vicente M, Wilson Sayres MA, Järve M, Talas UG, Rootsi S, Illumäe AM, Mägi R, Mitt M, Pagan L, Puurand T, Faltyskova Z, Clemente F, Cardona A, Metspalu E, Sahakyan H, Yunusbayev B, Hudjashov G, DeGiorgio M, Loogväli EL, Eichstaedt C, Eelmets M, Chaubey G, Tambets K,

- Litvinov S, Mormina M, Xue Y, Ayub Q, Zoraqi G, Korneliussen TS, Akhatova F, Lachance J, Tishkoff S, Momynaliev K, Ricaut FX, Kusuma P, Razafindrazaka H, Pierron D, Cox MP, Sultana GN, Willerslev R, Muller C, Westaway M, Lambert D, Skaro V, Kovačević L, Turdikulova S, Dalimova D, Khusainova R, Trofimova N, Akhmetova V, Khidiyatova I, Lichman DV, Isakova J, Pocheshkhova E, Sabitov Z, Barashkov NA, Nymadawa P, Mihailov E, Seng JW, Evseeva I, Migliano AB, Abdullah S, Andriadze G, Primorac D, Atramentova L, Utevska O, Yepiskoposyan L, Marjanovic D, Kushniarevich A, Behar DM, Gilissen C, Vissers L, Veltman JA, Balanovska E, Derenko M, Malyarchuk B, Metspalu A, Fedorova S, Eriksson A, Manica A, Mendez FL, Karafet TM, Veeramah KR, Bradman N, Hammer MF, Osipova LP, Balanovsky O, Khusnutdinova EK, Johnsen K, Remm M, Thomas MG, Tyler-Smith C, Underhill PA, Willerslev E, Nielsen R, Metspalu M, Villems R, Kivisild T. (2015) A recent bottleneck of Y chromosome diversity coincides with a global change in culture. *Genome Research*, 25(4), 459-466.
- Karafet T, Bulayeva K, Bulayev O, Gurganova F, Omarova J, Yepiskoposyan L, Savina O, Veeramah K, Hammer M. Extensive genome-wide autozygosity in the population isolates of Daghestan. *European Journal of Human Genetics*, advance online publication 21 January 2015. doi: 10.1038/ejhg.2014.299
  - Allentoft ME, Sikora M, Sjögren KG, Rasmussen S, Rasmussen M, Stenderup J, Damgaard PB, Schroeder H, Ahlström T, Vinner L, Malaspinas AS, Margaryan A, Higham T, Chivall D, Lynnerup N, Harvig L, Baron J, Della Casa P, Dąbrowski P, Duffy PR, Ebel AV, Epimakhov A, Frei K, Furmanek M, Gralak T, Gromov A, Gronkiewicz S, Grupe G, Hajdu T, Jarysz R, Khartanovich V, Khokhlov A, Kiss V, Kolář J, Kriiska A, Lasak I, Longhi C, McGlynn G, Merkevcicius A, Merkyte I, Metspalu M, Mkrtchyan R, Moiseyev V, Paja L, Pálfi G, Pokutta D, Pospieszny Ł, Price TD, Saag L, Sablin M, Shishlina N, Smrčka V, Soenov VI, Szeverényi V, Tóth G, Trifanova SV, Varul L, Vicze M, Yepiskoposyan L, Zhitenev V, Orlando L, Slicheritz-Pontén T, Brunak S, Nielsen R, Kristiansen K, Willerslev E. (2015) Bronze Age population dynamics and its impact on modern Eurasian genetic structure. *Nature*, 522(7555): 167-172. doi: 10.1038/nature14507

**Books:**

1. Yepiskoposyan L.M. (2000) Genetics of Growth Processes in the Armenian Population. Yerevan, "Tirast", 170 p.
2. Հակոբյան Մ., Եպիսկոպոսյան Լ. Ինչու են մահանում մանուկները Հայաստանում. Երևան, «Լիմոլ», 2008, 128 էջ:
3. Епископосян Л. (2008) Когда генетика и история сталкиваются. Ереван, 155 с.

**Participation in scientific documentaries:**

Shooting documentary and popular science films about the excavation in Azokh Cave (with the film makers from Karabagh TV company) – in 2004 and 2006.

**Current projects:**

- Genetic history of the Armenian and neighbour populations of the Near East and the South Caucasus (according to the Y chromosome and mtDNA markers).
- Excavations in the Paleolithic Cave of Azokh (Nagorno-Karabakh Republic).
- Prevalence of UCP1 genetic variants and their connection with obesity and cardio-metabolic disease. (FP7 EU project)