CURRICULUM VITAE OF WOJCIECH BRANICKI

Education

1991-1996 – Jagiellonian University in Krakow, Faculty of Biology and Earth Sciences, subject: molecular biology.

21.06.1996 – M.Sc.: „Effect of infection of Vaccinia virus on acute phase protein genes expression in human hepatoma cell line HepG2."

21.06.2001 – PhD at Medical University in Gdansk: "Sequence analysis of animal mitochondrial DNA for forensic identification purposes."

13.04.2010 – habilitation at Jagiellonian University: „Search for genetic predictors of pigmentation phenotype in humans."

Scientific experience

1.07.1996-31.03.1997 – biologist in the Institute of Pharmacology of the Polish Academy of Sciences.

1.04.1997-30.09.2001– forensic biologist in the Institute of Forensic Research in Krakow.

1.10.2001 – present – forensic expert (area: forensic genetics) in the Institute of Forensic Research.

1.10.2009 – present – researcher – Department of Genetics and Evolution, Institute of Zoology, Jagiellonian University.

1.01.2011 – present – associated professor in the Institute of Forensic Research in Krakow.

Major courses and training's

23.09-3.10.1997 – First European-American Intensive Course in PCR Based Clinical and Forensic Testing. Organiser: Medical University in Split, Split, Croatia

03.1999 – three week training in the Netherlands Forensic Institute, Rijsvijk, Netherlands

1.09-9.09.2001 - Second European-American Intensive Course in PCR Based Clinical and Forensic Testing. Organiser: University in Dubrovnik, Dubrovnik, Croatia.

8.02-21.02. 2004 – training on genetic analysis of bone in Biology Division of the National Institute of Toxicology and Forensic Sciences in Madrid, Spain.

8.03-12.03.2004 – training in FSS Birmingham (Mixed DNA interpretation)

Reviewer:

1. Electrophoresis
2. Forensic Science International: Genetics
3. Journal of Applied Genetics
4. Journal of Applied Oral Sciences
5. Journal of Zhejiang University-SCIENCE B
6. Cell Biochemistry & Function
7. Problems of Forensic Sciences

Educational activity

1) Lecturer at the Faculty of Biotechnology of the Jagiellonian University in Krakow (regular lecture: Application of DNA examination in forensic science).
2) Lectures and seminars for prosecutors and judges.

Membership

1. International Society for Forensic Genetics (ID 1166).
2. National Association of Laboratory Diagnosticians (ID 11568).
3. Polish Society of Human Genetics.
4. Polish Society of Legal Medicine and Criminology.

Major publications

1. Rokita H, **Branicki W**, Wronska D, Borysiewicz LK, Koj A. Vaccinia virus-induced changes in cytokine-regulated acute phase plasma protein synthesis by hepatoma cells. Biochem ***Mol Biol Int*** 1998, 44, 1093-104.
2. Pawłowski R, Kupiec T, **Branicki W**. Allele frequencies of the DYS390 STR system in the population of northern Poland. ***Problems of Forensic Sciences*** 1998, 38, 128-145.
3. Pawlowski R, Branicki W, Kupiec T. Y-chromosomal polymorphic loci DYS19, DYS390, DYS393 in a population sample from northern Poland. ***Electrophoresis*** 1999, 20, 1702-6.
4. Wolańska-Nowak P, **Branicki W**, Kupiec T. Application of GenePrint® PowerPlex™ 16 system in analysing of forensic mix stains. ***Problems of Forensic Sciences*** 2001a, 46, 116–124.

5. Ploski R, Wozniak M, Pawlowski R, Monies DM, **Branicki W**, Kupiec T, Kloosterman A, Dobosz T, Bosch E, Nowak M, Lessig R, Jobling MA, Roewer L, Kayser M. Homogeneity and distinctiveness of Polish paternal lineages revealed by Y chromosome microsatellite haplotype analysis. ***Hum Genet.*** 2002, 110, 592-600.
6. **Branicki W**, Kupiec T, Pawłowski R. Analysis of dog mitochondrial DNA for forensic identification purposes. ***Problems of Forensic Sciences*** 2002, 50, 91-95. KBN = 6 pkt.
7. **Branicki W**, Kupiec T, Pawlowski R. Validation of cytochrome b sequence analysis as a method of species identification. ***J Forensic Sci.*** 2003, 48, 83-87.
8. Babik W, **Branicki W**, Sandera M, Litvinchuk S, Borkin LJ, Irwin JT, Rafinski J. Mitochondrial phylogeography of the moor frog, Rana arvalis. ***Mol Ecol.*** 2004, 13, 1469-80.
9. Jędrzejewski W, **Branicki W**, Veit C, Medugorac I, Pilot M, Bunevich A, Jędrzejewska B, Schmidt K, Theuerkauf J, Okarma H, Gula R, Szymura L, Forster M. Genetic diversity and relatedness within packs in an intensely hunted population of wolves Canis lupus. ***Acta Theriologica*** 2005, 50, 3-22.
10. Babik W, **Branicki W**, Crnobrnja-Isailovic J, Cogalniceanu D, Sas I, Olgun K, Poyarkov NA, Garcia-Paris M, Arntzen JW. Phylogeography of two European newt species--discordance between mtDNA and morphology. ***Mol Ecol.*** 2005, 14, 2475-91.
11. Pilot M, Jedrzejewski W, **Branicki W**, Sidorovich VE, Jedrzejewska B, Stachura K, Funk SM. Ecological factors influence population genetic structure of European grey wolves. ***Mol Ecol.*** 2006, 15, 4533-53.
12. Branicki W, Olszańska A, Konopiński M. Sequence variation in the control region of mitochondrial DNA within a population sample of domestic cats felis catus linnaeus – implications for domestic and wild cats differentiation. ***Problems of Forensic Sciences*** 2006, 67, 279–288.
13. **Branicki W**, Brudnik U, Kupiec T, Wolanska-Nowak P, Wojas-Pelc A. Determination of phenotype associated SNPs in the MC1R gene. ***J Forensic Sci.*** 2007, 52(2), 349-54.
14. **Branicki W**, Wolańska-Nowak P, Brudnik U, Kupiec T, Szymańska K, Wojas-Pelc A. Forensic application of a rapid test for red hair colour prediction and sex determination. ***Problems of Forensic Sciences*** 2007, 69, 37-51.
15. **Branicki W**, Brudnik U, Kupiec T, Wolańska-Nowak P, Szczerbińska A, Wojas-Pelc A. Association of Polymorphic Sites in the OCA2 Gene with Eye Colour Using the Tree Scanning Method. ***Ann Hum Genet.*** 2008, 72, 184-92.

16. **Branicki W**, Wolańska-Nowak P, Parys-Proszek A, Kupiec T. Application of Mentype Argus X-8 kit to forensic casework. ***Problems of Forensic Sciences*** 2008, 73, 53-64.
17. Parys-Proszek A, **Branicki W**, Wolańska-Nowak P, Kupiec T. Application of Biorobot M48 to DNA extraction from biological specimens analysed in forensic investigations. ***Problems of Forensic Sciences*** 2008, 76, 369-381.
18. **Branicki W**, Brudnik U, Draus-Barini J, Kupiec T, Wojas-Pelc A. Association of the *SLC45A2* gene with physiological human hair colour variation. ***J Hum Genet.*** 2008, 53, 966-71.
19. Brudnik U, **Branicki W**, Wojas-Pelc A, Kanas P. Contribution of varation in melanocortin 1 receptor and agouti signaling protein to cutaneous melanoma and basal cell carcinoma in a Polish population. ***Exp Dermatology*** 2009, 18, 167-174.
20. **Branicki W**, Brudnik U, Wojas-Pelc A. Interactions between *HERC2*, *OCA2* and *MC1R* may influence human pigmentation phenotype. ***Ann Hum Genet.*** 2009, 73, 160-170.
21. Draus-Barini J, Marcińska M, **Branicki W**. Polymorphism of the *SLC45A2* gene and prospects for its application in forensic science. ***Problems of Forensic Sciences*** 2009, 77, 79-88.
22. Bogdanowicz W, Allen M, Branicki W, Lembring M, Gajewska M, Kupiec T. Genetic identification of putative remains of the famous astronomer Nicolaus Copernicus. ***Proc Natl Acad Sci U S A.*** 2009, 106(30), 12279-82.
23. Kupiec T, Branicki W. Badania genetyczne domniemanych szczątków generała Władysława Sikorskiego. ARCH. MED. SĄD. KRYM., 2009, LIX, 9-14.
24. Wolańska-Nowak P, Branicki W, Parys-Proszek A, Kupiec T. A population data for 17 Y-chromosome STR loci in South Poland population sample--some DYS458.2 variants uncovered and sequenced. Forensic Sci Int Genet. 2009 Dec;4(1):e43-4.
25. Pilot M, Branicki W, Jedrzejewski W, Goszczynski J, Jedrzejewska B, Dykyy I, Shkvyrya M, Tsingarska E. Phylogeographic history of grey wolves in Europe. BMC Evol Biol. 2010 Apr 21;10(1):104.
26. Parys-Proszek A, Kupiec T, Wolańska-Nowak P, Branicki W. Genetic variation of 15 autosomal STR loci in a population sample from Poland. Leg Med (Tokyo). 2010 Sep;12(5):246-8.
27. Branicki W, Liu F, van Duijn K, Draus-Barini J, Pośpiech E, Kupiec T, Wojas-Pelc A, Kayser M. Model-based prediction of human hair color using DNA variants. Hum Genet. 2011 Apr;129(4):443-54.

28. Pośpiech E, Draus-Barini J, Kupiec T, Wojas-Pelc A, Branicki W. Gene-gene interactions contribute to eye colour variation in humans. J Hum Genet. 2011, 2011 Jun;56(6):447-55. doi:10.1038/jhg.2011.38.
29. Kupiec T, Branicki W. Genetic examination of the putative skull of Jan Kochanowski reveals its female sex. Croatian Medical Journal, 2011 Jun;52(3):403-9.
30. Maruszak A, Safranow K, Branicki W, Gawęda-Walerych K, Pośpiech E, Gabryelewicz T, Canter JA, Barcikowska M, Zekanowski C. The Impact of Mitochondrial and Nuclear DNA Variants on Late-Onset Alzheimer's Disease Risk. J Alzheimers Dis. 2011 Jan 1;27(1):197-210.

Short communications:

31. Wolańska-Nowak P, **Branicki W**, Kupiec T. STR data for AmpF/STR Profiler Plus loci in south Poland. ***Forensic Sci Int*** 2001b, 122, 173-4.
32. Wolańska-Nowak P, Branicki W, Kupiec T. STR data for SGM Plus and penta E and D loci in a population sample from south Poland. ***Forensic Sci Int*** 2002, 127, 237-9. IF = 1.397.
33. Branicki W, Kalista K, Kupiec T, Wolanska-Nowak P, Zoledziewska M, Lessig R. Distribution of mtDNA haplogroups in a population sample from Poland. ***J Forensic Sci.*** 2005, 50, 732-3.

34. Wolańska P, Branicki W, Parys-Proszek A, Kupiec T. Examples of combining genetic evidence—Bayesian network approach. ***Forensic Sci Int: Genetics*** 2008, Supplement series 1, 669-670.
35. Branicki W, Szczerbińska A, Brudnik U, Wolańska-Nowak P, Kupiec T. The *OCA2* gene as a marker for eye colour prediction. ***Forensic Sci Int: Genetics*** 2008, Supplement series 1, 536-537.

Review papers:

36. Wolańska-Nowak P., Branicki W.: Baza danych profili DNA - nowe narzędzie dla wymiaru sprawiedliwości, ***Prokuratura i Prawo*** 2000, 5, 87-98.
37. Branicki W. Dowód z analizy DNA zwierzęcego w procesie sądowym. ***Prokuratura i Prawo*** 2003, 4:153-161.
38. Branicki W, Wolańska-Nowak P.: Interpretacja wyników badania DNA w procesie karnym. ***Prokuratura i Prawo*** 2003, 11, 48-68.

39. Branicki W, Brudnik U, Wojas-Pelc A. Genetic prediction of pigmentary traits in forensic studies. ***Problems of Forensic Sciences*** 2005, 64, 343–357.
40. Brudnik U, Wojas-Pelc A, **Branicki W**. The genetics of melanoma. ***Post Derm Alerg*** 2006, 23(1), 21-25.
41. **Branicki W.** Studies on predicting pigmentation phenotype for forensic purposes. ***Problems of Forensic Sciences*** 2009, 77, 29-52.

Handbooks:

42. Wójcikiewicz J. (red.), Ekspertyza sądowa. Zakamycze, Kraków 2002.; Wójcikiewicz J. (red.), Ekspertyza sądowa. Zagadnienia wybrane. Wolters Kluwer Polska – Oficyna, Wydanie 2, Warszawa 2007.
43. Branicki W (red.), Kupiec T, Wolańska-Nowak P. Badania DNA dla celów sądowych. Wydawnictwo Instytutu Ekspertyz Sądowych, Kraków 2008.
44. Wolańska-Nowak P., Branicki W. Zastosowanie sieci bayesowskich do genetycznej identyfikacji człowieka". Inżynieria Wiedzy i Systemy Ekspertowe", Problemy Współczesnej Nauki, Teoria i Zastosowania - Informatyka, (red. Adam Grzech, Krzysztof Juszczyszyn, Halina Kwaśnicka, Ngoc Thanh Nguyen), wyd. Akademicka Oficyna Wydawnicza EXIT, Warszawa 2009.