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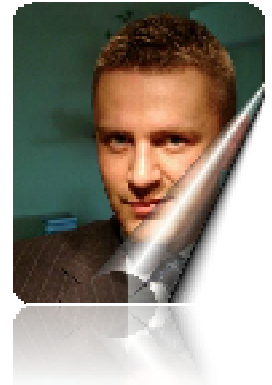
- <http://youtu.be/e3HzToOSEgQ> short invitation - youtube movie



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Thank you in advance
Adam Master

Medical Centre for Postgraduate Education (MCPE),
ul. Marymoncka 99, 02-813 Warsaw, Poland,
tel.: +(48) 22-834-6847, fax: +(48) 22-834-0470
adam.master@gene-factory.com



Laboratory of Molecular Medical Biology of BioTe21 located at
Centre for Innovation, Technology Transfer and University Development (CITTRU),
ul. Gronostajowa 7, 30-387 Cracow, Poland,
tel.: +48 507 470 880, fax: +48 (012) 266 39 11
adam.master@biote21.com

Born on the 18th of January 1975 in Wadowice, Poland

ADAM MASTER

Curriculum Vitae

EDUCATIONAL BACKGROUND

School: **Medical Centre for Postgraduate Education (MCPE)**, Department of Biochemistry and Molecular Biology; after full-time Ph.D studies (30.09.2010) in area of medical biology (please find attachments) and before Ph.D dissertation defense (at the end of 2011); doctoral research under the supervision of promoter: professor Alicja Nauman, Ph.D; doctoral research performed in cooperation with professor Graham R. Williams, M.D. from Molecular Endocrinology Group, Division of Medicine & MRC Clinical Sciences Centre, Imperial, College London; doctoral dissertation title: *The influence of UnTranslated Regions (UTRs) on expression of T3-dependent nuclear thyroid hormone receptor $\beta 1$ (TR $\beta 1$) in human clear cell renal cell carcinoma (ccRCC)*.
<http://www.cmkp.edu.pl/~molbiol/>, <http://www.cmkp.edu.pl/>.

School: **Jagiellonian University**; Faculty of Biology and Earth Sciences (now: Biochemistry, Biophysics and Biotechnology), Department of Cell Biology headed by professor Zbigniew Madeja, Ph.D, D.Sc; Master's theses: *The influence of extracellular calcium ions on contact-mediated acceleration of migration of mouse melanoma B16 cells*;
5-year, full-time higher education studies in the field of biology, specialization of Molecular Biology, completed on the 22th of Jun 2001 with the overall grade: very good and the title of Master of Science (**M.sc.**).
<http://www.wbbib.uj.edu.pl/mainpage>, http://www.uj.edu.pl/en_GB/

School: **Cracow University of Technology**; Faculty of of Chemical Engineering and Technology, Institute of Organic Chemistry and Technology; Engineer's theses: *Engineering of plasmid-based genetic construct encoding fusion protein: ubiquitin-ubiquitin protease 4*, performed under the supervision of promoter: professor Jan Ogonowski, Ph.D., D.Sc., Eng.; performed in cooperation with professor Andrzej Plucienniczak, Ph.D., D.Sc. from Institute of Biotechnology and Antibiotics in Warsaw;
4-year higher education studies in the field of chemical technology, specialty of Light organic technology, completed on the 26th of October 2004 with the overall grade: very good and the title of Engineer (**Eng.**). <http://www.en.pk.edu.pl/>, <http://www.chemia.pk.edu.pl/wiitch/index.php>,
<http://www.iba.waw.pl/en/index.html>.

RESEARCH EXPERIENCE

01.09.2005 – present; **Medical Centre for Postgraduate Education (MCPE)**, Department of Biochemistry and Molecular Biology headed by professor Alicja Nauman;
Medical biology, cell biology, genomics, transcriptomics, proteomics, cancer research, gene expression, translational control in the context of cancer research. Position: PhD student.

<http://www.cmkp.edu.pl/~molbiol/>, <http://www.cmkp.edu.pl/>.

- 26.02.2005 – present; **Laboratory of Molecular Medical Biology of BioTe21**,
Molecular medicine, RNAi, RNAa, epigenetics, cancer therapy, scientific projects for European Structural Funds - the Integrated Regional Operational Programme (IROP) and the 7th European Union Frame Programme (FP7); laboratory designer and director, coordinator of scientific projects, inventor of new genetic diagnostics and innovative biotechnologies aimed at gene therapy and molecular diagnostics. Position: scientific project director.
<http://www.biote21.com/html/en/index-en.html>, <http://www.badaniejcostwa.pl/biote21-medical-biology.html>, <http://www.citru.uj.edu.pl/?q=en/node/51>
- 21.04.2005 – 2008; **Nucleagena Ltd**,
Building project of Laboratory of molecular diagnostics, scientific projects for European Structural Funds, implementation of technologies for medical diagnostics.
<http://www.nucleagena.pl/eng/info.htm>, <http://www.nucleagena.pl/>
- 01.03.2003 - 25.02.2005; **Institute for DNA Research** in Warsaw;
Molecular biology, Laboratory diagnostics, DNA/RNA analysis, genetic engineering in the context of recombinant proteins; <http://ibdna.pl//eng/>,
- 01.11.2002 - 28.02.2003; **Nencki Institute of Experimental Biology**, Laboratory of Transcription Regulation, headed by professor Bozena Kaminska-Kaczmarek,
Molecular biology, cloning, gene expression in the context of transcriptional control;
<http://www.nencki.gov.pl/en>, <http://www.nencki.gov.pl/en/laboratory-of-transcription-regulation>,
- 01.04.2002 - 30.10.2002; **Institute for DNA Research** in Warsaw.
Molecular biology, DNA analysis, paternity testing, medical genetic diagnostics
<http://ibdna.pl//eng/>
- 01.07.2001 - 30.03.2002; **Institute of Pharmacology of Polish Academy of Science** in Cracow; Department of Molecular Neuropharmacology headed by professor Ryszard Przewlocki.
Molecular biology, cell culture, gene expression profiling in the context of drug abuse,
http://www.if-pan.krakow.pl/ifpan_ww/.

TECHNICAL EXPERIENCE

In my scientific work I have taken advantage of the most advanced research tools and high-resolution apparatus enable of performing the synthesis and analysis at genome, transcriptome and proteome level, including:

- ABI 3900 High Throughput Nucleic Acid Synthesizer (AppliedBiosystems),
- Microarray technology (human, mouse whole genome, SNP, CGH, miRNA; Agilent, Affymetrix, Ambion),
- PCR and Quantitative Real-Time PCR (Roche, BioRad, Rotorgene, Stratagene)
- Whole genome sequencing (WGS, Illumina),
- Standard Sequencing (using 310, 3100, 3130xl Genetic Analyzers, Applied Bioscience),
- Mass spectrometry (MS, Agilent),
- High-Performance Liquid Chromatograph (HPLC, Hitachi Transgenomic WAVE DNA Analysis System),
- In vitro coupled transcription/translation System (Roche, Promega),
- Cell culture (MCF7, T47D, WM793, DU145, Caki-1, Caki-2, HK2, human fibroblasts)
- Laser Microdissection & Optical Tweezers PALM MicroBeam (Zeiss),
- Fluorescence microscopy (Nikon, Olympus),

REFEREED PUBLICATIONS

Joanna Bogusławska, Anna Wojcicka, Agnieszka Piekietko-Witkowska, **Adam Master**, Alicja Nauman MiR-224 Targets the 3'UTR of Type 1 5 α -Iodothyronine Deiodinase Possibly Contributing to Tissue Hypothyroidism in Renal Cancer. PlosOne, www.plosone.org, 2nd September 2011.

Master A, Wójcicka A, Piekietko-Witkowska A, Bogusławska J, Popławski P, Tański Z, Darras VM, Williams GR, Nauman A. Untranslated regions of thyroid hormone receptor beta 1 mRNA are impaired in human clear cell renal cell carcinoma. *Biochim Biophys Acta. Molecular Basis of Disease*, 2010 Aug 3.

Piekietko-Witkowska A, **Master A**, Wojcicka A, Bogusławska J, Brozda I, Tanski Z, Nauman A. Disturbed expression of type 1 iodothyronine deiodinase splice variants in human renal cancer. *Thyroid*. 2009 Oct;19(10):1105-13.

Nauman A., Piekietko-Witkowska A., Turowska O., Popławski P., **Master A.**, Tański Z., Lampkowska J., Wójcicka A., Brózda I., Puzianowska-Kuźnicka M., Zaburzenia szlaków sygnałowych hormonu tarczycy – trijodotyroniny – w raku nerki typu jasnokomórkowego., *Postępy Nauk Medycznych* 2008, 5: 268-279

Wisniewski P, **Master A**, Kaminska B., Cloning and purification of functionally active Fas ligand interfering protein (FIP) expressed in Escherichia coli. *Acta Biochim Pol.* 2008;55(1):51-6. Epub 2008 Jan 18.

Piekietko-Witkowska A., Popławski P., **Master A.**, Lampkowska J., Wojcicka A., Brozda I., Nauman A., The expression and triiodothyronine dependent regulation of two splicing factors: SF2/ASF and hnRNPA1 is disturbed in clear cell renal cell carcinoma, EMBO Conference Series, RNA and Disease, RNA Metabolism and Associated Pathologies, 2008, May 31 – June 5.

Wesolowska A, Kwiatkowska A, Slomnicki L, Dembinski M, **Master A**, Sliwa M, Franciszkiewicz K, Chouaib S, Kaminska B. Microglia-derived TGF-beta as an important regulator of glioblastoma invasion—an inhibition of TGF-beta-dependent effects by shRNA against human TGF-beta type II receptor. *Oncogene*. 2008 Feb 7;27(7):918-30. Epub 2007 Aug 6.

Nauman A, Turowska O, Poplawski P, **Master A**, Tanski Z, Puzianowska-Kuznicka M. Elevated cyclin E level in human clear cell renal cell carcinoma: possible causes and consequences. *Acta Biochim Pol.* 2007;54(3):595-602. Epub 2007 Aug 28.

Turowska O, Nauman A, Pietrzak M, Popławski P, **Master A**, Nygard M, Bondesson M, Tanski Z, Puzianowska-Kuznicka M. Overexpression of E2F1 in clear cell renal cell carcinoma: a potential impact of erroneous regulation by thyroid hormone nuclear receptors. *Thyroid*. 2007 Nov;17(11):1039-48.

Master A., Piekietko-Witkowska A., Poplawski P., Tanski Z., Nauman A., The expression of alternatively spliced 5'-UTR mRNA variants of Human Thyroid Hormone Receptor Beta 1 (THRB1) is dependent on the tissue type and aberrant in clear cell renal cell carcinoma (ccRCC). *Horm Res* 2007;68 (Suppl. 3):48-49

Switaj K, **Master A**, Borkowski PK, Skrzypczak M, Wojciechowicz J, Zaborowski P., Association of ocular toxoplasmosis with type I Toxoplasma gondii strains: direct genotyping from peripheral blood samples, *J Clin Microbiol.* 2006 Nov;44(11):4262-4

Wesołowska Aleksandra, **Master Adam**, Śliwa Marcin, Kamińska-Kaczmarek Bożena. Development of siRNA against T β RII blocking efficiently TGF β 1 signalling pathways in glioma cells, *The FEBS Journal*, 2005, vol. 272, p48, Suppl. 1

Madeja Z, **Master A**, Michalik M, Sroka J. Contact-mediated acceleration of migration of melanoma B16 cells depends on extracellular calcium ions. *Folia Biol.* 2001;49(3-4):113-24.

Original papers under editorial consideration:

Adam Master, Anna Wojcicka, Kamilla Gizewska, Graham Williams, Alicja Nauman. A novel method for gene-specific enhancement of protein translation efficiency.

Adam Master, Anna Wójcicka, Joanna Bogusławska, Agnieszka Piekietko-Witkowska, Piotr Popławski, Graham R. Williams, and Alicja Nauman. Selective enhancement of THRB suppressor gene translation in human clear cell Renal Carcinoma cells.

SELECTED ABSTRACTS:

- o **A. Master**, A. Wojcicka, P. Poplawski, A. Piekietko-Witkowska, J. Bogusławska, I. Brozda, G. R. Williams

and A. Nauman.: *Short oligodeoxynucleotides (dGoligos) targeting of the THRB gene 5'-UTR markedly increase the efficiency of TR β protein translation - a therapeutic potential of sense/antisense based dGoligos as Gibb's free energy modulators of 5'-utr stem-loop structure*. 05-09.09.2009. Lisbon, European Thyroid Association. Acta Medica Portuguesa, 2009; 22; 4(11); s.13. The Young Investigators' Prize.

- **Adam Master**¹ Agnieszka Piekuelko-Witkowska¹ Piotr Poplawski¹ Joanna Lampkowska¹ Anna Wojcicka¹ Izabela Brozda¹ Zbigniew Tanski² Graham R. Williams³ Alicja Nauman¹. *Aberrant expression of human thyroid hormone receptor β 1 protein may be regulated by alternative untranslated regions of THRB1 mRNA in clear cell renal cell carcinoma (ccRCC)*. ¹Department of Biochemistry and Molecular Biology, Medical Center of Postgraduate Education, Warsaw, Poland, ²Specialistic Hospital, Ostroleka, Poland, ³Molecular Endocrinology Group, Imperial College London, MRC Clinical Sciences Centre, Hammersmith Hospital, Du Cane Road, London, W12 0NN. The European Thyroid Association (ETA), Thessaloniki 2008.
- **Adam Master**¹, Agnieszka Piekuelko-Witkowska¹, Piotr Poplawski¹, Zbigniew Tanski², Alicja Nauman¹. *The expression of alternatively spliced 5'-UTR mRNA variants of Human Thyroid Hormone Receptor Beta 1 (THRB) is dependent on the tissue type and aberrant in clear cell renal cell carcinoma (ccRCC)*. ¹Department of Biochemistry and Molecular Biology, Medical Center of Postgraduate Education, Warsaw, Poland, ²Specialistic Hospital, Ostroleka, Poland. The European Thyroid Association (ETA), Leipzig 2007.

SELECTED SEMINARS:

- **Adam Master**. *The influence of UnTranslated Regions (UTRs) on expression of T3-dependent nuclear thyroid hormone receptor β 1 (TR β 1) in human clear cell renal cell carcinoma (ccRCC)*. The work has been shown during doctoral seminars every 6 months, presented in the context of doctoral research progress. Medical Centre for Postgraduate Education in Warsaw, Poland.
- **Adam Master**. *Genetic Diagnostics in Molecular Medicine*. The cycle of lectures for physicians in their specializations of MDs. Medical Centre for Postgraduate Education in Warsaw, Poland.

PATENTS

Master Adam, Skrzypczak Magdalena, Master Aneta, Nowacka Joanna, Plucienniczak Andrzej, Wroblewska Sylwia (authors). *Oligonucleotide and polynucleotide for the detecting and determining mutation, particularly hereditary mutation in the p53 human gene, method for the manufacture of this polynucleotide and method and the apparatus for the detecting and determining mutation*. Patent number: PL373443 (A1). International classification: C12N15/10; C12P19/30; C12Q1/68; C12P35/00. Application number: PL20050373443 20050307. Publication date: 2006-09-18.

Master Adam, Skrzypczak Magdalena, Master Aneta, Nowacka Joanna, Plucienniczak Andrzej, Wroblewska Sylwia (authors). *Oligonucleotide and polynucleotide for the detecting and determining mutation, particularly hereditary mutation in the human genes BRCA1 and BRCA2, method for the manufacture of this polynucleotide and method and the apparatus for the detecting and determining mutation in the human genes BRCA1 and BRCA2*. Patent number: PL373442 (A1). International classification: C12N15/10; C12P19/30; C12N15/07; C12N15/11; A61P35/00. Application number: PL20050373442 20050307. Publication date: 2006-09-18.

Master Adam, Skrzypczak Magdalena (authors). *Oligonucleotide, its application and method and apparatus designed for detection of gondiae DNA Toxoplasma gonidii*. Patent number: PL358894 (A1). International classification: C07K14/45; C12Q1/68; C12P19/34; A61P33/02; C12N15/30. Application number: PL20030358894 20030226. Publication date: 2004-09-06.

Other inventions under patent examining procedure.

Created BIO-TECHNOLOGIES:

Long experience in the field of genetics, molecular medicine and routine work with DNA and RNA analysis, allowed me to **design and develop** new bio-technologies including:

- Potential therapeutics based on recombinant proteins such as engineered active domain of EGF and MGF (muscle growth factor - an alternatively spliced IGF1 variant);

- New generation of potential therapeutics based on nucleic acid molecules (**eRNA**) allowing selective enhancement of protein synthesis at the level of translational control, especially genes which protein synthesis efficiency is too low or is wanted to be higher (including suppressors in cancer treatment). The molecules show properties of trans-acting factors selectively targeting cis-acting elements of target mRNAs. The technology takes advantage of some cellular phenomena including RNA activation (RNAa) and may have a great many practical applications in biotechnology and molecular medicine, especially in medicinal preparations containing genetic material delivered to cells, preferably for gene therapy of tumors, inherited disorders and infectious diseases. The invention shows technical and industrial solution allowing selective enhancement of protein synthesis from one or both homological alleles of: TP53, BAX, CDKN2A, CDK4, RB1, NOD2, CHEK2, INBS1, MC1R, MSH2, MLH1, MSH6, BRCA1, BRCA2, APC, INS, GH1, IFNA1 TERT, COL1A1, HIF1 and many other native or modified genes involved in anti-cancer, anti-viral or anti-aging genes, that efficiency of protein synthesis is too low or is wanted to be higher.
- Potential therapeutics based on small interfering RNAs triggering **RNAi** phenomenon.
- New medical diagnostics for fast and low-cost mutation screening in genes such as: CHRNA3, CHRNA5, GSTP1, GSTM1 and ELA2 (predisposing to lung cancer); RET (thyroid cancer), 15 mutations in **BRCA1** and 9 mutations in BRCA2, as well as NBS1 and CHEK2 (breast cancer); analysis of mutation in LDLR, APOE, APOB genes (cardiovascular diseases).
- Optimized technology for mitochondrial DNA analysis which is an extremely easy way to differentiate SNPs (Single Nucleotide Polymorphism) in mtDNA, based on the method of fluorescent DNA fragments separation - **mtDNAtes t-SNP** module. Specially chosen set of analyzed SNP allows analyzing the most hypervariable HVI and HVII sequences' locations, therefore it is useful especially in genetic identification and comparative mtDNA analysis of biological traces (determining of haplotypes and haplogroups helpful in forensic sciences and family tree construction).
- Technology for fast genetic identification of microorganisms based on rRNA genotyping.

As a scientist, I am interested in research and implementation of scientific discoveries in biotechnology and medicine based on rudimentary studies of genome, transcriptome and proteome. My aim is to create a technological and scientific resource base allowing development of useful bioinformatic projections as well as elaboration and implementation of new biotechnologies with particular acknowledgement of applications utilized in molecular medicine.

Participation in research GRANTS:

- 2009-present; Research project: *Structural and functional analysis of splice variants of TR61 in Human Renal Cancer*. This work was supported by the Polish State Committee for Scientific Research Grants N N401 073636, N401 017 32/0286 (to A.N), and the Medical Centre of Postgraduate Education Grant 501-2-1-22-15/06. Realized in Medical Centre for Postgraduate Education in Warsaw, Poland.
- 2009-2011, Large project: *Expression of genes involved in human epilepsy* (research using microarray technology), coordinated by Adam Master at Laboratory of Molecular Medical Biology of BioTe21 in cooperation with Medical University in Lublin, Poland and Ocean Ridge Biosciences, Palm Beach Gardens, FL USA.
- 2006-2011, Project: *Gene synthesis using the method of oligonucleotide assembly in PCR reaction*, co-financed by the European Union from the European Regional Development Fund (ERDF) as part of the Integrated Regional Operational Programme (IROP). Adam Master's project realized in Laboratory of Nucleic Acid Synthesis and Sequencing of BioTe21 in Cracow, Poland. The structural fund of EU allowed to provide the best quality, the most advanced research tools and high-resolution apparatus enable of performing the synthesis and analysis at genome and transcriptome level (ABI 3900 High-Throughput DNA Synthesizer, ABI 3100 Automated Capillary DNA Sequencer, HPLC, lyophilizer, thermocyclers and other research tools. Project partner: AME Bioscience Ltd, UK.
- 2008-2010, Project: *Genetic diagnostics of inherited mutations of genes involved in melanoma malignum*, realized in Laboratory of Molecular Medical Biology of Biote21, supported by the PKO BP.
- Project: N N401 3547 33, realized in Medical Centre for Postgraduate Education in Warsaw, Poland.
- Project N401 017 32/02863, realized in Medical Centre for Postgraduate Education in Warsaw, Poland.
- Project 501-2-1-24-06/08, realized in Medical Centre for Postgraduate Education in Warsaw, Poland.
- Project 501-2-1-24-07/08, realized in Medical Centre for Postgraduate Education in Warsaw, Poland.
- Project 501-2-1-22-15/06: realized in Medical Centre for Postgraduate Education in Warsaw, Poland.
- Participation in projects coordinated by AKCENT MALOPOLSKA, a consortium of Jagiellonian University, Cracow University of Technology, University of Agriculture, AGH University of Science and Technology, focused on Research programme, that covers the following priority areas: Biotechnology, Nanotechnology and Modern technologies in medicine. The consortium aims at realization of many-year interdisciplinary research and training programme as

well as efficient implementation and commercialization of modern technologies by the Universities in Cracow.

- o Participation in an international proposal: *Betacarotene metabolism as the risk of liver fat accumulation. Search for the new NAFLD risk markers*, created for 7th EU Frame Programme in *Health* priority, coordinated by Collegium Medicum at Jagiellonian University.

AWARDS and certificates:

2011 – Poland's Ministry of Health Award for research, published in *Thyroid*. 2009 Oct;19(10):1105-13: *Disturbed expression of type 1 iodothyronine deiodinase splice variants in human renal cancer*, by Piekielko-Witkowska A, **Master A**, Wojcicka A, Boguslawska J, Brozda I, Tanski Z, Nauman A. The prize awarded to professor A. Nauman's team.

2005-2010 - GEDNAP (German DNA Profiling Group) certificates in terms of genetic analysis of 18 somatic STRs + a sex marker as well as unique certificates of mtDNA sequence analysis of variable mtDNA-HVI and mtDNA-HVII regions, and a certificate for biological microtraces identification. The above-mentioned certificated ensure the highest quality of analysis performed by Adam Master, as well as certainty in terms of yielded results. The GEDNAP's reliability tests are recommended by, among others, ENFSI (European Network of Forensic Science Institutes).

Adam Master has also been awarded many times in the context of research performed in Laboratory of Molecular Medical Biology of BioTe21, with, for example, the most worth mentioning:

2009.11.16 – Małopolska Innovator award 2009 for *melanoma malignum diagnostics* and the most innovative biotechnologies of BioTe21 laboratory in the Malopolskie Province, awarded by the Technology Transfer Centre of the Krakow University of Technology and The Regional Self-Government of Malopolska. The aim of the competition is to promote innovation, and implement international projects aimed at the development of science.

2010.03.24 – Adam Master was appointed (by Rector of Cracow University of Technology) as a member of scientific board assessing projects in the "Young Scientist – Creator Of Economic Reality" competition, financed by the program of the Ministry of Science and Higher Education "Innovation creator – support of the academic innovative entrepreneurship". Research projects entered in the competition related to different fields of science, such as automatics and robotics, renewable energy sources, applied IT science, construction, organic and inorganic chemistry, architecture, and even medical diagnostics. The competition was organized by the Cracow University of Technology Transfer Centre, under the honorary patronage of the Rector of Cracow University of Technology.

2009.04.16 – Leaders of the Polish National Health Care System (OSOZ) - main award 2009 in the category of medical innovations, aimed to acknowledge individuals and institution whose involvement and undertakings bring about a significant quality improvement of the health care in Poland in 2009.

2008.11.18 – Distinction of BioTe21 in the main category of the top Laboratory of the year 2008 – a competition organized by Kronenberg Foundation Award of Citi Bank. The foundation's mission is to provide assistance to programs promoting the public good in the fields of education and local development.

2009 - Book publication: *Enterprising University - usefulness of scientific research*, Mieczysław Bak, Przemysław Kulawczuk. Chapter 5, p.337-354. Case study of BioTe21 and Adam Master, Institute for Private Enterprise and Democracy of the Polish Chamber of Commerce (IPED), Warsaw 2009.

Additional ACTIVITIES and honors:

2011.03.22 – present. Appointment of Adam Master as a **court expert** in the area of: genetic and biochemical identification at the Regional Court in Warsaw, Poland. Appointed on the basis of the Regulation of the Minister of Justice dated 24 January 2005 on court experts, art.1.1 and 1.2 (Journal of Laws No. 15, item 133).

2008.11.25 – present. Appointment of Adam Master as a court expert in the area of: genetic and biochemical identification at the Regional Court in Cracow, Poland.

2008.12. – present. Membership in The **Society for Endocrinology, based in the United Kingdom**, <http://www.endocrinology.org/>.

2008 – present. Membership in The **Life Science Klaster** Krakow, coordinated by Jagiellonian Center for Innovations. <http://www.lifescience.pl/index.php> .

2007.03.27 – present. Membership in the **Polish Forensic Association** (PTK), section of molecular biology. Member card no.: 0724.

2003.10.15 – present. **License** to practice the profession of a **laboratory diagnostician** no. AA04465, issued by the National Chamber of Laboratory Diagnosticians, Number of entry on the list of laboratory diagnosticians: 08989.