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Natalya Peretyatko

PERSONAL DATA:

Date of birth:	March 5th, 1973
Place of birth:	Alma-Ata, Kazakhstan
Nationality:	Russian
Marital status:	Married

EDUCATION:

1980-1990	• State School Nr.124, Alma-Ata, Kazakhstan; State Exam
December 1991	• Classic Massage School, Center „Znanie“, Almaty, Kazakhstan
1992-1998	• Degree in Pediatrics, M.D., with full marks and honors, Kazakh State Medical University (KasSMU), Almaty, Kazakhstan
May 2000	• Qualified Exams for Ph.D. in medicine: Philosophy and a Foreign Language (English), each with the mark 5 („excellent“).

PROFESSIONAL EXPERIENCE

1990-1991	• Nurse assistant, Surgical Department, Scientific Research Institute of Eyes Diseases, Alma-Ata, Kazakhstan
1991-1992	• Laboratory assistant, Birth Assistance and Gynecology Faculty, Kazakh State Medical University (KasSMU), Almaty, Kazakhstan
1992-1994	• Classic massage for children of 0-3 years old (privately)
November 1998 - May 2001	• Junior researcher, Pediatrics Faculty with Course of Children’s Diseases Propedeutics and Endocrinology, Kazakh State Medical University (KazSMU), Almaty, Kazakhstan. • Researcher in ecological dependent diseases, National Children's Rehabilitation Center "Urpak", Almaty, Kazakhstan

August 2000

- Short-term visiting physician,
  Heidelberg University Children's Hospital,
  Heidelberg, Germany

October 2001 - March 2004

- Visiting physician,
  Heidelberg University Children's Hospital,
  Hematological Immunological Oncological Department & Laboratory,
  Heidelberg, Germany

April 2004 - October 2004

- Visiting physician,
  Heidelberg University Children's Hospital,
  Oncological Department, Laboratory of Molecular Biology,
  Heidelberg, Germany

February 2005 – June 2007

- Visiting scientist (volunteer),
  Iowa State University,
  Department of Biochemistry, Biophysics and Molecular Biology,
  Laboratory of Professor M.Nilsen-Hamilton,
  Ames, IA USA

SCHOLARSHIPS

1998-2001

- Research Fellow in General Pediatrics,
  Children's Hospital, Kazakh State Medical University,
  Almaty, Kazakhstan in the frame of 4 grants:
  - „Influence of unfavourable environmental factors on the health of children living in regions of ecological disaster in the Republic of Kazakhstan", granted by Ministry of Education, Culture and Health of the Republic of Kazakhstan
  - „Health improvement of big non-industrial city population in conditions of ecological disaster", granted by Health Agency of the Republic of Kazakhstan
  - „Influence of the environment pollution on the development of ecological dependent diseases in children", granted by Ministry of Natural Resources and Environmental Protection of the Republic of Kazakhstan
  - „Environment and Health", granted by Ministry of Natural Resources and Environmental Protection of the Republic of Kazakhstan

June 2001 - October 2002

- Research Fellow in Pediatrics,
  Division of Hematology, Oncology and Immunology,
  Children's Hospital, Heidelberg University,
  Heidelberg, Germany
  Annual scholarship granted by German Academic Exchange Service (DAAD - Deutscher Akademischer Austausch Dienst).

November 2002 - March 2004

- Postdoc position - Research Fellow in Pediatric Oncology Hematology and Immunology at Heidelberg University,
  Division of Hematology, Oncology and Immunology,
  Hematological Immunological Oncological Laboratory
  (Dr.med. Hauke Sieverts),
  Children's Hospital, Heidelberg, Germany

April 2004 – October 2004

- Postdoc position - Research Fellow in Pediatric Oncology at Heidelberg University, Laboratory of Molecular Biology (Prof.Martina Muckenthaler), Children's Hospital,
  Heidelberg, Germany

RESEARCH INTERESTS

- Tumor bank
- Neuroblastoma (experimental activity):
  - experiments to discover new kinds of neuroblastoma cell lines from patients material (bone marrow, tumor tissue, pleural secret)
  - cells cultivation and cloning
  - cell apoptosis
  - immunophenotyping of neuroblastoma cells
  - immunotherapy of neuroblastoma
- Leukemia in children:
  - apoptosis of leukemia cells in bone marrow
  - apoptosis gene profiling
- Aptamers:
  - N-MYC and c-MYC protein
- HIV infection in children:
  - clinical, immunological and virological courses
  - problems of adherence to antiretroviral therapy
- Ecological dependent diseases in children

SPECIAL LABORATORY SKILLS

- Flow Cytometry:
  - School on operation of FACScan Cytometer by „Becton Dickinson“, and EPICS II Flow Cytometry by „Beckman Coulter“ (including EXPO-32™ Software-School, Saarbruecken, Germany, April 23-25, 2002)
  - Multi-colour analysis for detection of lymphocytes subpopulations in peripheral blood
  - Immunophenotyping of malign cells in bone marrow
  - Apoptosis assays (Nicoletti, TUNEL) in cell lines and lymphocytes
- Morphological methods:
  - Apoptosis assays (screen microscopic colorings, fluorescence microscopic interpretation, image analysis) in cell lines, lymphocytes and tumor tissue samples (formalin-fixed, paraffin-embedded and frozen)
  - Immunological histochemistry in cell lines and tumor tissue samples (formalin-fixed, paraffin-embedded and frozen)
  - Cells separation (fermentative)
- Cultivation and cloning of neuroblastoma cell cultures
- Molecular biology:
  - RNA isolation, PCR-analysis, LightCycler analysis
  - Protein expression and purification
  - TOPO cloning
- Management of tumor bank:
  - Collection and preparation of tumor samples
  - Storage of tumor samples
  - Tumor samples database management

COMPUTER KNOWLEDGE

- Microsoft Office (Word, Excel, Access, Power Point)
- Graphics Programs (Corel Draw, Adobe)
- SPSS for WINDOWS, Version 11.5
- EndNote, Version 7
- WWW

COMMUNITY SERVICE

- Co-organizer of the Conference "Priority directions in development of pediatric science in Kazakhstan", Almaty, Kazakhstan, January 6, 1999
- Co-organizer of the Republican Scientific Practical Conference "Actual questions of children gastroenterology", in scope of the State Program "Health of population" and opening of the Republican Children's Gastroenterological Center,
  Almaty, Kazakhstan, December 20-21, 1999
- Co-organizer of the National Children's Rehabilitation Center "Urpak" Visitor Programs for Professors and medical students from Nippon Medical School and Juntendo University School of Medicine, Tokyo, Japan, Summer 1999 and 2000, Almaty, Kazakhstan
- Co-organizer of the Conference "Ecology and Health in 21st Century: History, Experience and Perspectives", Almaty, Kazakhstan, May 23, 2000
- Co-organizer of the Anniversary Conference, dedicated to 70th Anniversary of Kazakh State Medical University (KazSMU),
  Almaty, Kazakhstan, May 24-25, 2001
- Mentoring medical students,
  Immunological Oncological Laboratory,
  Children's Hospital of Heidelberg University,
  Heidelberg, Germany, 2002-2004

PUBLICATIONS

1999

1. O.J.Zinger, N.V.Peretyatko, F.M.Kipshakbaeva
   "Environmental pollution and skin condition in children living in Kazakh part of the Aral Sea region (clinical-morphological investigations)" [in Russian],
   Interuniversity Anthology "Clinical Medicine", Velikiy Novgorod - Almaty, Russia-Kazakhstan, 1999, pp.489-491.
2. O.J.Zinger, N.V.Peretyatko
   "Clinical-microbiological peculiarities of skin condition in children living in unfavorable ecological conditions" [in Russian],
   Scientific-practical conference "Vital questions of mother's and children's health", Kirghiz Scientific Research Institute of Obstetrics and Pediatrics; Bishkek, Kyrgizstan, May 14, 1999, pp.117-119.
3. Kabdollanova Z.I, Veretova N.V., Peretyatko N.V.
   "Intellectual efficiency of children living in the Aral Sea region",
   V Regional Congress of Pediatric Societies of Turkish Speaking Countries with International Participation, 25-28.09.1999. Bishkek, Kyrgizstan, p.130.

4. G.S.Abeuova, E.D.Esghanova, N.V.Peretyatko, N.A.Sagatbaeva
   "Characteristics of immunity in children with chronic pathology living in the Aral Sea region" [in Russian],
   "Clinical immunology, allergology and immunorehabilitation", I International Congress, Almaty, Kazakhstan, October 6-8, 1999, p.2.
5. O.J.Zinger, N.V.Peretyatko
   "Some particularities of skin's condition in children living in the Aral Sea region (clinical-microbiological investigations)" [in Russian],
   "Actual problems of pediatrics and children's surgery", Scientific practical Conference of Young Scientists and Specialists, Almaty, Kazakhstan, October 21-22, 1999, pp.33-34.
6. Turlibekova Z.E., N.V.Peretyatko
   "Ecological unfavorable background and intestine's pathology in children living in the Aral Sea region" [in Russian],
   "Actual problems of pediatrics and children's surgery", Scientific practical Conference of Young Scientists and Specialists, Almaty, Kazakhstan, October 21-22, 1999, pp.92-93.
7. R.B.Samuratova, E.T.Kosherbekov, M.I.Appasova, S.V.Cherchenko, N.V.Peretyatko "Structure of inborn anomalies of digestive system development in children" [in Russian],
   Collected works, International Scientific-Practical Conference "Actual Problems of Children's Gastroenterology" dedicated to opening of Republican Children's Gastroenterological Center, December 20-21, 1999, Almaty, Kazakhstan, pp. 23-30
8. A.L.Kotova, E.B.Alibaeva, O.B.Checranova, S.V.Cherchenko, N.V.Peretyatko
   "Peculiarities of chronic gastritis in children living in the Aral Sea Region" [in Russian],
   Collected works, International Scientific-Practical Conference "Actual Problems of Children's Gastroenterology" dedicated to opening of Republican Children's Gastroenterological Center, December 21-22, 1999, Almaty, Kazakhstan, pp. 41-43

2000

9. R.B.Samuratova, E.T.Kosherbekov, M.I.Appasova, S.V.Cherchenko, N.V.Peretyatko
   "Inborn anomalies of digestive system development in children" [in Russian],
   Collected works, 7th Conference "Actual Problems of Abdominal Pathology in Children", March 2-3, 2000, Moscow, Russia, pp. 5-6
10. E.B.Alibaeva, A.L.Kotova, N.V.Peretyatko, O.B.Chekranova, S.V.Cherchenko, E.K.Alibaev
    "Characteristic of chronic gastritis in children from the Aral Sea region" [in Russian],
    Collected works, 7th Conference "Actual Problems of Abdominal Pathology in Children", March 2-3, 2000, Moscow, Russia, pp. 105-106
11. E.D.Esganova, G.S.Abeuova, N.V.Peretyatko, N.A.Sagatbaeva
    "Features of the immune status of children living in the Aral Sea region",
    The 10th Asian Congress of Pediatrics, March 26-30, 2000 Taipei, Taiwan, abstract number: pp18:342.
12. Z.I.Kabdollanova, N.V.Peretyatko
    "Clinical-psychological evaluation of health of children living in the Aral Sea region",
    The 10th Asian Congress of Pediatrics, March 26-30, 2000 Taipei, Taiwan, abstract number: pp33:507.
13. Z.Kabdollanova, N. Peretyatko
    "Research on mental function of children living in the Aral Sea region",
    The Second International Congress on Pediatrics in the Community (SIPCC 2000+); International Convention Center, Jerusalem, Israel, April 10-14, 2000.

14. Z.Kh.Mazhitova, Z.I.Kabdollanova, N.V.Peretyatko
“Basic aspects of psychological neurological development of children from the ecological unfavourable Aral Sea region” [in Russian],
International Professional Journal “Medicine”, №4, 2000, pp.12-14
15. Z.Kh.Mazhitova, B.M.Kisamieva, O.D.Shinkarenko, N.V.Peretyatko
“Interstitial damages of lung tissue in children living in the Aral Sea region” [in Russian],
Abstracts book: III Congress of Pulmonologists from Central Asia; Bishkek, Kirgizia; June 1-2, 2000; p.59.
16. O.Y.Zinger, N.V.Peretyatko, R.I.Berkembaeva
„Condition of skin microflora in children from the Aral Sea region as index of their heath“ [in Russian],
Scientific Practical Conference „Ecology and Children’s Health“, Astana, Kazakhstan, June 25-27, 2000, p.182
17. Mazhitova Z., Samuratova R., Peretyatko N.
"Immunodeficiencies in children from the Aral Sea region",
Abstract Book, 2nd Meeting of the European Society for Paediatric Haematology and Immunology Working Groups (Working Group "Developing Countries), Lucca, Italy, October 19-22, 2000
18. Samuratova R.B., Appasova M.I., Choy S.W., Peretyatko N.V.
“Changes of genetic apparatus of cells in children living in the Aral Sea Region” [in Russian], in the
Anthology of Scientific Papers “Problems of Morphology and Clinic”,,
Academic of the Academy of Medical Sciences of the Republic of Kazakhstan, Professor A.A.Idrisova ed., 5th Edition, p.231

2001

19. N.V.Peretyatko, N.A.Sagatbaeva, M.I.Appasova, S.W.Choy
“Immunodeficiency in Aral Sea region children with chronic diseases of the gastrointestinal tract” [in Russian],
Anthology of Scientific Papers, 8th Scientific Practical Conference “Actual Problems of Abdominal Pathology in Children” (Children Gastroenterology 2001), Moscow, Russia, March 15-16, 2001, pp. 34-35
20. N.V.Peretyatko
„Immunodeficiency in children living in the Aral Sea Region“ [in Russian],
Abstracts book, VII Conclusion Opened Conference of Yang Scientists and Students of Kirov State Medical Academy “Youth and Medical Science in XXI Century”, Kirov, Russia, April 10-12, 2001, p.100
21. S.S.Sarsenbaeva, R.B.Samuratova, E.B.Alibi, B.M.Kissamieva, N.V.Peretyatko
„Health condition of children from the region of Aral Sea catastrophe“ [in Russian],
Abstracts book, VII Conclusion Opened Conference of Yang Scientists and Students of Kirov State Medical Academy “Youth and Medical Science in XXI Century”, Kirov, Russia, April 10-12, 2001, p.107
22. Z.I.Kabdollanova, N.V.Peretyatko
„Neuro-psychological violations in children and adolescents living in the ecological unfavourable region of Aral Sea“ [in Russian],
Anniversary Anthology of the Kazakh State Medical University, dedicated to 70-annum of the Kazakh State Medical University, Almaty, Kazakhstan, May 24-25, 2001, p.113
23. N.A.Sagatbayeva, R.B.Samuratova, N.V.Peretyatko
”The role of the HLA-system in forming ecologically dependent diseases in children from the unfavorable Aral Sea region”,
European Society for Pediatric Hematology and Immunology, ESPHI Congress 2001, KKL Lucerne / Switzerland, June 17-19, 2001, p.73

24. Mazhitova Z, Peretyatko N
"Immunodeficiency conditions in children living in the Aral Sea region",
Abstracts Book, The 23rd International Congress of Pediatrics, Beijing, China, September 9-14, 2001; p.325
25. Imambaeva T, Mazhitova Z, Samuratova R, Peretyatko N
"Peculiarity of bronchial asthma development in children living in the Aral Sea region",
Abstracts Book, The 23rd International Congress of Pediatrics, Beijing, China, September 9-14, 2001; p.344
26. Z.Kh.Mazhitova, R.B.Samuratova, Z.I.Kabdollanova, N.V.Peretyatko
"Results of neurological examination of children living in the ecologically unfavorable region of the Aral Sea",
Abstracts Book, 4th Congress of the European Paediatric Neurology Society (EPNS) Baden-Baden, Germany, September 12-16, 2001, Registration Number 104, P 321, A 127-128, (poster)
27. Z.Kh.Mazhitova, S.S.Sarsenbaeva, B.M.Kissamiyeva, N.V.Peretyatko
"Morphological changes on interstitial damages of lung tissue in children living in Aral Sea region",
European Respiratory Society Annual Congress, September 22-26, 2001, International Congress Center, Berlin, Germany, p. 411s (poster)

2002 28. Natalya Peretyatko, Bodem J., Sieverts H.
„Antiretroviral therapy: changing or intensifying of individual care? Plan of improvement of therapeutic management in HIV-infected children" [in German],
Pediatric Team AIDS in Germany (Pädiatrische Arbeitsgemeinschaft AIDS in Deutschland - PAAD) - Anniversary 2002, Freising-Munich, Germany, April 26-28, 2002 (talk)
29. H.Sieverts, A.Pietrzak, S.Elsesser, N.Peretyatko, Z.Zachario
"Assessment of spontaneous and chemotherapy induced apoptosis in short term cultures of primary neuroblastoma tissue",
Conference "Advances in Neuroblastoma Research", Paris, France, June 17-19, 2002 (poster)

2004 30. H.Sieverts, S.Kramer, S.Dreesmann, A.Schramm, N.Peretyatko, A.Eggert
"Expression of TrkA in SY5Y neuroblastoma cells sensitized for chemotherapy-induced apoptosis by up-regulation of caspase-8",
Conference "Advances in Neuroblastoma Research", Genova, Italy, June 16-19, 2004 (poster)

TALKS

- Natalya Peretyatko, Bodem J., Sieverts H.
„Antiretroviral Therapy to Change or Individual Care to Intensify? Plan of Improvement of Therapeutic Management in HIV-infected Children";
Pediatric Team AIDS in Germany (Pädiatrische Arbeitsgemeinschaft AIDS in Deutschland - PAAD) - Anniversary 2002, Freising-Munich, Germany, April 26-28, 2002
- Natalya Peretyatko, Sieverts H.
"Tumor bank: Collection and Use"
Weekly Meeting of the Molecular Biology Lab Staff,
Children's Hospital of Heidelberg University, Germany, June 28, 2004
- Natalya Peretyatko
"Role of Tumor Bank in Clinical Cancer Research"
Weekly Meeting of the Molecular Biology Lab (Prof. M.Nilsen-Hamilton),
Department of Biochemistry, Biophysics and Molecular Biology
ISU Ames, IA USA, March 21, 2005

CONFERENCES

- Conference "*Priority directions in development of pediatric science in Kazakhstan*",
  Almaty, Kazakhstan, January 6, 1999
- Republican Scientific Practical Conference "*Actual questions of children gastroenterology*", in scope of the State Programme "Health of population" and opening of the Republican Children's Gastroenterological Center,
  Almaty, Kazakhstan, December 20-21, 1999
- Conference "*Ecology and Health in 21st Century: History, Experience and Perspectives*",
  Almaty, Kazakhstan, May 23, 2000
- *Anniversary Conference, dedicated to 70th Anniversary of Kazakh State Medical University* (KazSMU),
  Almaty, Kazakhstan, May 24-25, 2001
- German-Kazakh Seminar "*Charitable security engagement in social field – political and lawful successful requirements*",
  Berlin, Germany, October 25-31, 2001
- Cologne Spring Meeting "*Immunity*", Institute of Genetic of Koeln University,
  Koeln, Germany, March 13-15, 2002
- *9th Anniversary of Pediatric Team AIDS in Germany* (Pädiatrische Arbeitsgemeinschaft AIDS in Deutschland - PAAD),
  Freising-Munich, Germany, April 26-28, 2002 (talk)
- *XVI Anniversary of Paediatric Oncological Research*, Wilsede, Lueneburger Heide, Germany, June 25-28, 2003
- *Neuroblastoma Meeting*, Children's Hospital of Frankfurt am Main University,
  Frankfurt am Main, Germany, September 23, 2003
- *New Development in the Pediatric Oncology*, symposium dedicated to the opening of the Pediatric Oncological Daily Hospital at the Children's Hospital of Heidelberg,
  Heidelberg, Germany, February 7, 2004
- *Experimental Pediatric Oncology and Immunology,* conference dedicated to the competition for professorship position at the Medicine Faculty of Heidelberg University, Children's Hospital of Heidelberg University,
  Heidelberg, Germany, July 29, 2004

OTHER ACTIVITIES

1994-2000	• Guide, translator, cook and medical assistant in the International Mountain Camp „Khan-Tengri“ (Kazakhstan / Alatau und Tyan-Shan Mountains), 3 excursions and expeditions every season (2 months per year).
Feb-Jul 2007	• Teaching in the Ames Russian Club for Toddlers (Russian language, culture, traditions), Ames, IA, USA (http://amesrussian.blogspot.com)
Since Jan 2008	• Organizer and teacher in the Russian Toddlers Club in Newport News, VA, USA (Russian language, history, culture, traditions) (http://russiantoddlersclub.googlepages.com)

LANGUAGES

Russian	mother tongue
English	very good
German	good
Italian	good
French	beginner

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