

6 Appendix

6.1 Abbreviations

BMP	Bone Morphogenetic Protein
BMPR-IA	Bone Morphogenetic Protein Receptor type IA
BMPR-IB	Bone Morphogenetic Protein Receptor type IB
BMPR-II	Bone Morphogenetic Protein Receptor type II
BrdU	5'-Bromo-2'-deoxy-Uridine
<i>ColIII/Ihh</i> embryo	mouse embryo misexpressing chicken <i>Ihh</i> under control of ColIII promoter
ColX	Collagen type X
DNA	deoxyribonucleic acid
FGF	Fibroblast Growth Factor
FGFR	Fibroblast Growth Factor Receptor
FGFR3ach	mouse model for FGFR3-mediated achondroplasia syndrome
IgG	Immunoglobulin G
Ihh	Indian hedgehog
Pthlh	Parathyroid hormone-like peptide
Pthr	Parathyroid hormone receptor
RNA	ribonucleic acid
RNAse	ribonuclease
Shh	Sonic hedgehog
SYM 1	Symphalangism 1 (fused phalanges due to absent interphalangeal joints)
SYNS 1	Synostosis syndrome 1 (fusions in phalangeal bones, hip and vertebrae)
v/v	volume per volume
w/v	weight per volume

6.2 Curriculum vitae

Eleonora Minina

Place and Date of birth Karatau town, Kasachstan, March 6, 1975

Citizenship Russia

Professional experience

Feb. 2002-present Postdoc in the laboratory of Dr. Andrea Vortkamp, at the Max Planck Institute for Molecular Genetics, Berlin, Germany

Nov. 1998-Feb. 2002 Ph.D. student in the laboratory of Dr. Andrea Vortkamp, Berlin

Sept. 1997-Sept. 1998 Ph.D. student in the laboratory of Prof. Dr. N.P. Mertvetsov, at the Institute of Bioorganic Chemistry, Novosibirsk, Russia

Sept. 1995-June 1997 Undergraduate student in the laboratory of Prof. Dr. N.P. Mertvetsov, Novosibirsk

Education

Nov. 1998-Feb. 2002 Ph.D. study at the Max Planck Institute for Molecular Genetics, Berlin, Germany. Thesis: "Interaction of Ihh/Pthlh, BMP and FGF signaling in regulating chondrocyte proliferation and differentiation". (grade: *summa cum laude*, Freie Universität, Berlin)

1997 Diploma work in the laboratory of Prof. Dr. N.P. Mertvetsov, at the Institute of Bioorganic Chemistry, Novosibirsk, Russia. Thesis: "Structural and functional analysis of novel genes from the 5q23-32 and 11p13-14 regions of human genome" (grade: excellent)

1992-1997 Novosibirsk State University, Novosibirsk, Russia

1990-1992 High Physic-Mathematical School N165 (specialized school-scientific center of Novosibirsk State University), Novosibirsk, Russia

1982-1990 High School N4, Zhanatas town, Kasachstan

Publications and Meetings

List of publications

1. Muravlev, A.I., N.A. Chikaev, A.A. Nikonova, E.M. Shelkovnikova*, N.P. Mertvetsov (1999) Immunochemical identification of protein products of three new genes from the p13-14 region of human chromosome 11. *Mol Biol* (Mosk), Mar-Apr; 33(2): 163-8.
2. Minina, E., H.M. Wenzel, C. Kreschel, S. Karp, W. Gaffield, A.P. McMahon, A. Vortkamp (2001) BMP and Ihh/PTHrP signaling interact to coordinate chondrocyte proliferation and differentiation. *Development*, 128(22): 4523-34.
3. Minina, E.; C. Kreschel, M. C. Naski, J. S. Colvin, D.M. Ornitz, A. Vortkamp (2002) Interaction of FGF signaling with that of the Ihh/PTHrP and BMP pathways coordinates chondrocyte proliferation and differentiation. *Developmental Cell*, 3, 439-449.

*- I changed my family name from Shelkovnikova to Minina in Sept. 1999

Meetings

1. 13th Symposium of the Society of Developmental Biology, March 22-24, 1999
2. Summer School, Spetses, 2-15 September 2000, Poster ‚Interaction of BMP and Ihh signaling during cartilage differentiation‘
3. Schwerpunktprogramm ‚Molekulare Dymorphogenese‘ Abschlusskolloquium, 9-11 April 2001, Mainz; talk: ‚Interaction of FGF and Ihh signaling during chondrocyte differentiation‘.
4. SDB 60th Annual Meeting, University of Washington, Seattle. July 18-22, 2001, Poster ‚Interaction of Ihh, BMP and FGF signaling during chondrocyte differentiation‘ (published in *Developmental Biology* 235, 131-171, 2001).

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6.4 Selbstständigkeitserklärung

Hiermit erkläre ich, dass ich die Arbeit selbst verfasst und keine anderen als die angegebenen Quellen und Hilfsmittel benutzt habe. Ich versichere, dass diese Arbeit in dieser oder anderer Form noch keiner anderen Prüfungsbehörde vorgelegt wurde.

Berlin, den 22.2.2002

Eleonora Minina