

# Ruslan Novosyadlyy, M.D., Ph.D.

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## POSITION TITLE

Senior Scientist I  
Department of Molecular & Cellular Engineering  
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## EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Basic Medical School (School of Nursing) Ivano-Frankivsk, Ukraine	n/a	1990- 1993	Nursing; Diploma in Nursing with Honors
Ivano-Frankivsk State Medical Academy Ivano-Frankivsk, Ukraine	M.D.	1993- 1999	Medicine; Diploma in Medicine with Honors
Georg August University, Goettingen, Germany	Ph.D.	2001- 2004	Biology, Hepatology, Endocrinology; Rigorousum with "summa cum laude"
Mount Sinai School of Medicine, New York, NY	Postdoctoral training	2005- 2009	Basic Research in Endocrinology/Oncology

## A. Positions and Honors

### Positions and Employment

#### **1999-2001**

Teaching Assistant at the Department of Microbiology of State Medical Academy, Ivano-Frankivsk, Ukraine

#### **2005-2009**

Postdoctoral Fellow in the Division of Endocrinology, Diabetes and Bone Diseases, Department of Medicine, Mount Sinai School of Medicine

#### **July 2009-October 2009**

Assistant Professor (academic track) in the Division of Endocrinology, Diabetes and Bone Diseases, Department of Medicine, Mount Sinai School of Medicine

#### **October 2009 -present**

Senior Scientist I at the Department of Molecular & Cellular Engineering, ImClone Systems, a wholly-owned subsidiary of Eli Lilly and Company

### Other Experience and Professional Memberships

#### **April 2000 – June 2000**

Secretary of the State Examination Commission at the State Medical Academy, Ivano-Frankivsk, Ukraine

#### **April 2001 – June 2001**

Chief Secretary of the State Examination Commission at the State Medical Academy, Ivano-Frankivsk, Ukraine

#### **2002-2004**

Member, German Association for the Study of the Liver

#### **2004**

Steering Committee, Postgraduate Program "Clinical, Cellular and Molecular Biology of Internal Organs", Georg August University, Goettingen, Germany

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**2006**

Member, Endocrine Society

**2008**

Member, International Society for IGF Research

**2009**

Member, American Association for Cancer Research

### **Scholarships, Honors and Awards**

**1991 – 1993**

Scholarship to outstanding students at the Ivano-Frankivsk Basic Medical School, Ivano-Frankivsk, Ukraine

**1992 – 1993**

Olena Stepanivna Scholarship

**1995 – 1999**

Scholarship to outstanding students at the Ivano-Frankivsk State Medical Academy, Ivano-Frankivsk, Ukraine

**April 1999**

The Mayor's Award for excellent studies, scientific and organization work at the Ivano-Frankivsk State Medical Academy, Ivano-Frankivsk, Ukraine

**September 2001 – January 2004**

Ph.D. Fellowship in the framework of the Postgraduate Program "Clinical, Cellular and Molecular Biology of Internal Organs" from the Deutsche Forschungsgemeinschaft (German Research Foundation)

**February 2004 – December 2004**

Ph.D. Fellowship in the framework of the Forschungsfoerederungsprogramm 2004 (The Program of Research Support) from the University Hospital of Goettingen, Germany

### **B. Selected peer-reviewed publications (in chronological order)**

**Novosyadlyy R**, Tron K, Dudas J, Ramadori G, Scharf JG (2004): Expression and regulation of the insulin-like growth factor axis components in rat liver myofibroblasts. *J Cell Physiol* 199: 388-398.

Scharf JG, Dombrowski F, **Novosyadlyy R**, Eisenbach C, Demori I, Brulke T (2004): Insulin-like growth factor binding protein-1 is highly induced during acute carbon tetrachloride liver injury and potentiates the IGF-I-stimulated activation of rat hepatic stellate cells. *Endocrinology* 145: 3463-3472.

Tron K, **Novosyadlyy R**, Dudas J, Samoylenko A, Kietzmann T, Ramadori G (2005): Upregulation of heme oxygenase-1 by turpentine oil-induced localized inflammation: involvement of interleukin-6. *Lab Invest* 1:12.

**Novosyadlyy R**, Tron K, Dargel R, Scharf JG (2005): Expression of insulin-like growth factor-I and insulin-like growth factor binding proteins during thioacetamide-induced liver cirrhosis in rats. *Growth Horm IGF Res* 15: 313-23.

**Novosyadlyy R**, Dudas J, Pannem R, Ramadori G, Scharf JG (2006): Cross-talk between receptors for platelet-derived growth factor and insulin-like growth factor I in rat liver myofibroblasts: implication for liver fibrogenesis. *Lab Invest* 86: 710-23.

Yakar S, Nunez NP, Pennisi P, Brodt P, Sun H, Fallavollita L, Zhao H, Scavo L, **Novosyadlyy R**, Kurshan N, Stannard B, East-Palmer J, Smith NC, Perkins SN, Fuchs-Young R, Barrett JC, Hursting SD, Leroith D (2006): Increased tumor growth in mice with diet-induced obesity: impact of ovarian hormones. *Endocrinology* 147: 5826-34.

**Novosyadlyy R**, Kurshan N, Lann D, Vijayakumar A, Yakar S, LeRoith D (2008): Insulin-like growth factor I protects cells from ER stress-induced apoptosis via enhancement of the adaptive capacity of endoplasmic reticulum. *Cell Death and Differ* 15: 1304-17.

LeRoith D, **Novosyadlyy R**, Gallagher EJ, Lann D, Vijayakumar A, Yakar S (2008). Obesity and type 2 diabetes are associated with an increased risk of developing cancer and a worse prognosis: epidemiological and mechanistic evidence. *Exp Clin Endocrinol Diabetes* 116 (Suppl. 1): S4-S6.

**Novosyadlyy R**, Lebach A, Sheikh N, Tron K, Pannem R, Ramadori G, Scharf JG (2008). Temporal and spatial expression of IGF-I and IGFBP-1 during acute-phase response induced by localized inflammation in rats. *Growth Horm IGF Res* 19: 51-60.

**Novosyadlyy R**, LeRoith D. Insulin-like Growth Factors. Encyclopedia of Cancer. Springer, Heidelberg, Germany. In press.

**Novosyadlyy R**, Vijayakumar A, Lann D, Fierz Y, Kurshan N, LeRoith D: Physical and functional interaction between polyoma virus middle T antigen and insulin and IGF-I receptors is required for oncogene activation and tumor initiation. *Oncogene* In press.

**Novosyadlyy R**, Lann D, Vijayakumar A, Rowzee A, Lazzarino DA, Pennisi P, Molinolo AA, Fierz Y, Kurshan N, Mejia W, Santopietro S, Yakar S, Wood TL, LeRoith D: Insulin-mediated acceleration of breast cancer development and progression in a non-obese model of type 2 diabetes. Submitted.

Wu Y, Brodt P, Sun H, Mejia W, **Novosyadlyy R**, Nunez R, Mendoza A, Hong SH, Khanna C and Yakar S: IGF-1 regulates the inflammatory response and promotes liver metastases in obese mice. Submitted.

Fierz Y, **Novosyadlyy R**, Vijayakumar A, Yakar S, LeRoith D: Insulin sensitizing therapy abrogates the accelerated breast cancer progression in diabetic mice. Submitted.

Vijayakumar A, **Novosyadlyy R**, Yakar S, LeRoith D: Biological effects of growth hormone on carbohydrate and lipid metabolism. In press.

**Novosyadlyy R**, Vijayakumar A, Fierz Y, LeRoith D: Animal models of hyperinsulinemia, insulin resistance and cancer. Chapter for the book "Hyperinsulinemia, Insulin Resistance and Cancer". In press.

### C. Attended scientific meetings and poster/oral presentations

**Novosyadlyy R**, Dargel R, Ramadori G, Scharf JG: Expression and regulation of insulin-like growth factor binding proteins in rat liver myofibroblasts. 19<sup>th</sup> Annual Meeting of the German Working Team on Liver Studies, Berlin, Germany, 2003

Tron K, **Novosyadlyy R**, Ramadori G: Expression of heme oxygenase-1 in rat liver and in rat hepatocytes under inflammatory conditions. 19<sup>th</sup> Annual Meeting of the German Working Team on Liver Studies, Berlin, Germany, 2003

Lebach A, Tron K, **Novosyadlyy R**, Ramadori G, Scharf JG: In vivo expression of IGF-I, IGFBP-1 and -3 during acute phase response in rat liver: comparison with other organs. 19<sup>th</sup> Annual Meeting of the German Working Team on Liver Studies, Berlin, Germany, 2003

**Novosyadlyy R**, Tron K, Dudas J, Ramadori G, Scharf JG: Expression and regulation of the insulin-like growth factor axis components in rat liver myofibroblasts. 5<sup>th</sup> International Workshop on IGF-Binding Proteins, Stockholm, Sweden, 2003

**Novosyadlyy R**, Ramadori G, Scharf JG: IGF-I receptor-dependent mitogenic effect of platelet-derived growth factor in rat liver myofibroblasts. 20<sup>th</sup> Annual Meeting of the German Working Team on Liver Studies, Freiburg, Germany, 2004

Dudas J, Bordoni V, **Novosyadlyy R**, Scharf JG, Elmaouhoub A, Aprigliano I, Saile B, Tripodi M, Ramadori G: Differential effects of primary and immortalized hepatocytes on liver mesenchymal cells in co-cultures. 20<sup>th</sup> Annual Meeting of the German Working Team on Liver Studies, Freiburg, Germany, 2004

Tron K, **Novosyadlyy R**, Haralanova-Ilieva B, Ramadori G: Heme oxygenase-1 as intracellular positive acute phase protein in the rat liver: possible regulatory mechanisms. 20<sup>th</sup> Annual Meeting of the German Working Team on Liver Studies, Freiburg, Germany, 2004

**Novosyadlyy R**, Dudas J, Tron K, Ramadori G, Scharf JG: Differential expression of the insulin-like growth factor axis components in rat hepatic stellate cells and liver myofibroblasts. 2<sup>nd</sup> International Growth Hormone-IGF Symposium, Cairns, Australia, 2004

**Novosyadlyy R**, Yakar S, Wu YJ, Inagaki K, Savic R, Sun H, LeRoith D: Insulin-like growth factor I protects from endoplasmic reticulum stress-induced apoptosis in human breast cancer cells. 88<sup>th</sup> Annual Meeting of Endocrine Society, Boston, 2006

Inagaki K, Tiulpakov A, Yakar S, Wu YJ, **Novosyadlyy R**, Savic R, Sun H, LeRoith D: Functional Abnormalities of Cells with the R481Q Point Mutation in the Insulin-Like Growth Factor-I Receptor Gene. 88<sup>th</sup> Annual Meeting of Endocrine Society, Boston, 2006

**Novosyadlyy R**, Kurshan N, Lann D, Inagaki K, Yakar S, LeRoith D: Insulin-like growth factor I protects from endoplasmic reticulum stress-induced apoptosis in breast cancer cells and fibroblasts. Gordon Research Conference "Insulin-like growth factors in physiology and disease". Ventura, CA, 2007

Lann D, **Novosyadlyy R**, Kurshan N, Yakar S, LeRoith D: Polyoma Virus Middle T Antigen-Driven Oncogenesis as a Model to Study the Association Between Type 2 Diabetes and Breast Cancer. Gordon Research Conference "Insulin-like growth factors in physiology and disease". Ventura, CA, 2007

LeRoith D, **Novosyadlyy R**, Lann D, Rowzee A, Lazzarino D, Mejia W, Yakar S, Wood TL: Type 2 Diabetes Accelerates Normal Mammary Gland Development and Breast Cancer Progression. 68<sup>th</sup> Scientific Sessions of American Diabetes Associations, San Francisco, 2008

**Novosyadlyy R**, Kurshan N, Lann D, Vijayakumar A, Yakar S, LeRoith D: Insulin-like growth factor I protects cells from ER stress-induced apoptosis via enhancement of the adaptive capacity of endoplasmic reticulum. 4<sup>th</sup> International Congress of the Growth Hormone Research Society and International Society for IGF Research, Genova, Italy, 2008 – **oral presentation**

**Novosyadlyy R**: Molecular mechanisms that link type 2 diabetes and breast cancer progression. 1<sup>st</sup> Annual Gerald J. Friedman Fellows Symposium, New York, NY, 2008 – **oral presentation**

**Novosyadlyy R**, Lann D, Vijayakumar A, Rowzee A, Lazzarino DA, Pennisi PA, Molinolo AA, Fierz Y, Kurshan N, Mejia W, Santopietro S, Yakar S, Wood TL, LeRoith D: Type 2 diabetes accelerates normal mammary gland development and breast cancer progression: pathophysiological role of hyperinsulinemia and insulin receptors. Mount Sinai School of Medicine Cancer Biology Retreat, New York, 2008

Fierz Y, **Novosyadlyy R**, Vijayakumar A, Yakar S, LeRoith D: Antidiabetic Treatment Abrogates the Accelerated Breast Cancer Progression Mediated Through the IR and IGF-IR in Type 2 Diabetic MKR Mice. Gordon Research Conference “Insulin-like growth factors in physiology and disease”. Ventura, CA, 2009

Vijayakumar A, **Novosyadlyy R**, Lann D, Rowzee A, Lazzarino DA, Pennisi PA, Molinolo AA, Fierz Y, Kurshan N, Mejia W, Santopietro S, Yakar S, Wood TL, LeRoith D: Type 2 diabetes accelerates mammary gland development and breast cancer progression: pathophysiological role of hyperinsulinemia and insulin and IGF-I receptors. Gordon Research Conference “Insulin-like growth factors in physiology and disease”. Ventura, CA, 2009

**Novosyadlyy R**, Fierz Y, Lann DE, Vijayakumar A, Rowzee A, Lazzarino DA, Pennisi PA, Molinolo AA, Kurshan N, Mejia W, Santopietro S, Yakar S, Wood TL, LeRoith D: Acceleration of breast cancer development and progression in a non-obese model of type 2 diabetes is reversed by antidiabetic treatment and blockade of insulin and IGF-I receptors. 69<sup>th</sup> Scientific Sessions of American Diabetes Associations, New Orleans, 2009

Fierz Y, **Novosyadlyy R**, Vijayakumar A, LeRoith D: Antidiabetic Treatment Abrogates the Accelerated Breast Cancer Progression in Type 2 Diabetic MKR Mice. 91<sup>st</sup> Annual Meeting of Endocrine Society, Washington DC, 2009