

## Dr. sc. Antonija Jurak Begonja

Odjel za biotehnologiju  
Sveučilište u Rijeci  
R. Matejčić 2, O-224  
51 000 Rijeka  
Hrvatska

Tel: +385 51 584 581  
Fax: +385 51 584 599  
E-mail: ajbegonja@biotech.uniri.hr

### OBRAZOVANJE

**Doktor znanosti** 2004-2007  
Institut za kliničku biokemiju i patobiokemiju  
Julius Maximillian Sveučilište u Würzburgu, Njemačka  
**Dizertacija:** "NO/cGMP and ROS Pathways in Regulation of Platelet Function and Megakaryocyte Maturation"  
**Diplomirani inženjer medicinske biokemije** 1994-2000  
Farmaceutsko-biokemijski fakultet  
Sveučilište u Zagrebu, Hrvatska

### ISTRAŽIVAČKO I PROFESIONALNO ISKUSTVO

**Odjel za biotehnologiju** 2013-  
Sveučilište u Rijeci, Hrvatska  
Docent  
**Odsjek translacijske medicine** 2007-2013  
**Brigham and Women's Hospital**  
**Harvard Medical School, Boston, SAD**  
Poslijedoktorsko usavršavanje (postdoc), istraživanje citoskeletnih mehanizama uključenih u razvoj megakariocita u laboratoriju prof. John-a Hartwiga.  
**Institut za kliničku biokemiju i patobiokemiju** 2004-2007  
**Julius Maximillian Sveučilište u Würzburgu, Njemačka**  
Doktorand, istraživanje signalnih puteva cikličkih nukleotida I reaktivnih kisikovih vrsta u regulaciji trombocita, mentori prof. Ulrich Walter i dr. Stepan Gambaryan.  
**Odsjek molekularne dijagnostike** 2001-2003  
**Klinički zavod za kemiju**  
**Sveučilišna bolnica "Sestre milosrdnice", Zagreb, Hrvatska**  
**Klinički zavod za kemiju** 2000  
**Sveučilišna bolnica "Sestre milosrdnice", Zagreb, Hrvatska**  
Stož iz medicinske biokemije.  
**Državni ispit, prosinac 2001.** 1999  
**Zavod za medicinsku biokemiju**  
**Farmaceutsko-biokemijski fakultet**  
**Sveučilište u Zagrebu, Hrvatska**

**NAGRADE I PRIZNANJA**

<b>Nagrada za najbolju usmenu prezentaciju</b> doktorandica I. Bertović, 1st Italian-UK Platelet meeting, Bath, Velika Britanija	<b>7-8. rujna 2017.</b>
<b>Nagrada za najbolji poster</b> doktorandica I. Bertović, 3rd EUPLAN Conference (European Platelet Network Meeting), Bad Homburg, Njemačka	<b>23. rujna 2016.</b>
<b>NEWFELPRO stipendija (Marie Curie FP7-PEOPLE-2011-COFUND)</b>	<b>2014-2016</b>
<b>American Society of Hematology Travel Award</b> 52 <sup>nd</sup> American Society of Hematology Meeting, Orlando, USA	<b>2010</b>
<b>Abstract Achievement Award, ISTH (Top Third by Score)</b> International Society of Thrombosis and Hemostasis XXII Congress, Boston, MA, USA	<b>2009</b>
<b>CEEPUS stipendija</b> Odjel za biokemiju, Fakultet farmacije Karlovo Sveučilište, Republika Češka	<b>Travanj-svibanj 2001</b>
<b>Rektorova nagrada, Sveučilište u Zagrebu</b>	<b>1999</b>
<b>CEEPUS stipendija</b> Institut kliničke kemije, Sveučilišna bolnica, Pečuh, Mađarska	<b>ožujak 1999</b>
<b>Stipendija Sveučilišta u Zagrebu</b>	<b>1997</b>

**PROJEKTI**

<b>Projekt razvoja karijera mladih istraživača – izobrazba novih doktora znanosti, HRZZ, voditelj</b>	<b>2018-2022</b>
<b>H2020-MSCA-ITN-2017, “Targeting Platelet Adhesion Receptors in Thrombosis”, suradnik</b>	<b>2018 - 2021</b>
<b>Projekt razvoja karijera mladih istraživača – izobrazba novih doktora znanosti, HRZZ, voditelj</b>	<b>2016-2020</b>
<b>Uspostavni istraživački projekt, HRZZ, voditelj</b>	<b>2016-2019</b>
<b>International Centre for Genetic Engineering and Biotechnology-CRP Starting grant, voditelj</b>	<b>2016-2018</b>
<b>Uspostavni projekt Sveučilišta u Rijeci, voditelj</b>	<b>2014-2015</b>

**TEČAJEVI I USAVRŠAVANJA**

- Engleski kao znanstveni jezik, Harvard Medical School, Boston, SAD	<b>2010</b>
- BD tečaj za FACS kompenzaciju, Heidelberg, Njemačka	<b>rujan 2006</b>
- Laboratorij dr. Harald Schulze-a, Sveučilište Charité, Berlin, Njemačka	<b>15-30 svibanj 2005</b>

## **PODRUČJE ISTRAŽIVANJA I KOMPETENCIJE**

Iskustvo i kompetencije na području hematologije, s naglaskom na biologiju trombocita, signalne puteve koji kontroliraju funkciju trombocita, razvoj megakariocita i trombopoezu. Poseban interes za stanične i molekularne mehanizme uključene u dinamiku citoskeleta, filamin A, promet membrana, receptor za trombopoetin.

## **PROFESIONALNA ČLANSTVA**

- American Society of Hematology (ASH), 2018
- International Society on Thrombosis and Haemostasis (ISTH)
- European Hematology Association (EHA), 2015
- Hrvatsko društvo biokemije i molekularne biologije (HDBMB)

**PUBLIKACIJE (Web of Science: h-index 13, ukupni citati 616)**

18. **(WoS)** Marecic V, Shevchuk O, Ozanic M, Mihelcic M, Steinert M, **Jurak Begonja A**, Abu Kwaik Y, Santic M. Isolation of F. novicida-containing phagosome from infected human monocyte derived macrophages. **Frontiers in Cellular and Infection Microbiology**. 2017 Jul 5;7:303. doi: 10.3389/fcimb.2017.00303. eCollection 2017. **IF 4.3**
17. **(WoS, CC)** **Jurak Begonja A**, Pluthero FG, Suphamungmee W, Giannini S, Christensen H, Leung R, Lo RW, Nakamura F, Lehman W, Plomann M, Hoffmeister KM, Kahr WH, Hartwig JH, Falet H. FlnA binding to PACSIN2 F-BAR domain regulates membrane tubulation in megakaryocytes and platelets. **Blood**. 2015 Apr 2. pii: blood-2014-07-587600. **IF 11.8, citati: 12**
16. **(WoS, CC)** Grozovsky R, **Begonja AJ**, Liu K, Visner G, Falet H, Hartwig JH, Hoffmeister KM. The Ashwell-Morell receptor regulates hepatic thrombopoietin production via JAK2-STAT3 signaling. **Nat Med**, 2015 Jan; 21(1):47-54. **IF 30.3, citati: 57**
15. **(WoS, CC)** **Begonja AJ**, Gambaryan S, Schulze H, Patel-Hett S, Italiano JE, Hartwig JH, Walter U. Differential roles of cAMP and cGMP in megakaryocyte maturation and platelet biogenesis. **Exp Hematol**, 2013 Jan;41(1):91-101. **IF 2.8, citati: 5**
14. **(WoS, CC)** Thon JN, Devine MT, **Jurak Begonja A**, Tibbitts J, Italiano JE Jr. High-content live cell imaging assay used to establish mechanism of trastuzumab emtansine (T-DM1)-mediated inhibition of platelet production. **Blood** 2012 Sep 6; 120(10): 1975-84. **IF 9.0, citati: 42**
13. **(WoS, CC)** Thon JH, Macleod H, **Begonja AJ**, Zhu J, Lee KC, Mogilner A, Hartwig JH, Italiano JE Jr. Microtubule and cortical forces determine platelet size during vascular platelet production. **Nat Commun** 2012 May 22;3:852. **IF 10.0, citati: 49**
12. **(WoS, CC)** **Jurak Begonja A**, Hoffmeister K, Hartwig JH, Falet H. FlnA-null megakaryocytes prematurely release large and fragile platelets that circulate poorly. **Blood** 2011; 118(8):2285-95. **IF 9.8, citati: 37**
11. **(WoS, CC)** Patel-Hett S, Wang H, **Begonja AJ**, Thon JN, Alden EC, Wandersee NJ, An X, Mohandas N, Hartwig JH, Italiano JE Jr. The spectrin-based membrane skeleton stabilizes mouse megakaryocyte membrane systems and is essential for proplatelet and platelet formation. **Blood** 2011; 118(6):1641-52. **IF 9.8, citati: 28**
10. **(WoS, CC)** Falet H, Pollitt AY, **Begonja AJ**, Weber SE, Duerschmied D, Wagner DD, Watson SP, Hartwig JH. A novel interaction between FlnA and Syk regulates platelet ITAM-mediated receptor signaling and function. **J Exp Med**. 2010; 207(9):1967-79. **IF 14.7, citati: 58**
9. **(WoS, CC)** Rukoyatkina N, **Begonja AJ**, Geiger J, Eigenthaler M, Walter U, Gambaryan S. Phosphatidylserine surface expression and integrin alpha IIb beta 3 activity on thrombin/convulxin stimulated platelets/particles of different sizes. **Br J Haematol**. 2009; 144:591-602. **IF 4.6, citati: 139**
8. **(WoS, CC)** **Begonja AJ**, Geiger J, Rukoyatkina N, Rauchfuss S, Gambaryan S, Walter U. Thrombin stimulation of p38 MAP kinase in human platelets is mediated by ADP and thromboxane A2 and inhibited by cGMP/cGMP-dependent protein kinase. **Blood**. 2007; 109:616-618. **IF 10.9, citati: 29**
7. **(WoS, CC)** Zahedi RP, **Begonja AJ**, Gambaryan S, Sickmann A. Phosphoproteomics of human platelets: A quest for novel activation pathways. **Biochim Biophys Acta**. 2006; 1764:1963-1976. **IF 3.3, citati: 26**
6. **(WoS, CC)** **Begonja AJ**, Teichmann L, Geiger J, Gambaryan S, Walter U. Platelet regulation by NO/cGMP signaling and NAD(P)H oxidase-generated ROS. **Blood Cells Mol Dis**. 2006; 36:166-170. **IF 2.6, citati: 32**
5. **(WoS, CC)** **Begonja AJ**, Gambaryan S, Geiger J, Aktas B, Pozgajova M, Nieswandt B, Walter U. Platelet NAD(P)H-oxidase-generated ROS production regulates alphaIIb beta3-integrin activation independent of the NO/cGMP pathway. **Blood**. 2005; 106:2757-2760. **IF 10.1, citati: 107**

4. **(WoS, CC)** Simundic AM, Basic V, Topic E, Demarin V, Vrkic N, Kunovic B, Stefanovic M, **Begonja A**. Soluble adhesion molecules in acute ischemic stroke. **Clin Invest Med**. 2004; 27:86-92. **IF 1, citati: 36**
3. **(WoS, CC)** Gambaryan S, Geiger J, Schwarz UR, Butt E., **Begonja A**, Obergfell A, Walter U. Potent inhibition of human platelets by cGMP analogs independent of cGMP-dependent protein kinase. **Blood**. 2004;103:2593-2600. **IF 9.78, citati: 71**
2. **(WoS, CC)** Zuntar I, Topic E, Vukosavic D, Vukovic V, Demarin V, **Begonja A**, Antoljak N, Simundic AM. Croatian population data for the C677T polymorphism in methylenetetrahydrofolate reductase: frequencies in healthy and atherosclerotic study groups. **Clin Chim Acta**. 2003; 335:95-100. **IF 1.63, citati: 14**
1. **(WoS)** Topic E, Turek-Cubrilo M, **Begonja A**, Simundic AM, Demarin V, Stancic V, Zuntar I. MTHFR polymorphism in patients with cerebrovascular insult and deep venous thrombosis. Atherosclerosis: Risk factors, diagnosis and treatment. 2002; 481-487. **Proceedings at: 73th Congress of the European Atherosclerosis Society, Salzburg, Austria, July 7-10, 2002. ISBN: 88-323-2707-4**

## OSTALE PUBLIKACIJE

3. **Begonja AJ**. Molecular mechanisms of megakaryocyte and platelet development. RAD, Hrvatska akademija znanosti umjetnosti. 2015; 524:42, 35-47.
2. **Begonja A**, Simundic AM, Stefanovic M, Topic E. PCR-SSCP genotyping of the plasminogen activator inhibitor-1 4G/5G polymorphism. **Biochemia Medica**. 2002; 12: 1-5.
1. Drzata J, Bousova I, Sobotkova J, **Begonja A**, Beranek M, Palicka V. Factors influencing in vitro stability of aminotransferases as model proteins for glycation experiments. 2002; 49-50. **Proceedings at: 11th International Pharmaceutical Technology Symposium, Istanbul, Turkey, September 9-11, 2002.**

## POZVANA PREDAVANJA

- Begonja AJ. Prezentacija karijere i uspostavnog projekta HRZZ #2400: "The role of phosphoinositides in platelet formation"**  
HRZZ i HAZU, *Prezentacija Tenure Track Pilot Programa (u suradnji s EPFL, Švicarska)*, Zagreb, 15.5.2018.
- Begonja AJ. Molekularni mehanizmi produkcije trombocita: uloga citoskeleta i fosfoinozitida.**  
KroHem – Hrvatska kooperativna grupa za hematološke bolesti, Vukovar, 11.5.2018.
- Begonja AJ. Molecular mechanisms governing platelet production: the role of PI3P and late endosomes/lysosomes.**  
Leibniz – Institut für Analytische Wissenschaften - ISAS, Dortmund, Njemačka, 19.4.2018.
- Begonja AJ. Greasing up megakaryocytes: the role of PI3P in platelet production.**  
Institute of Cardiovascular Sciences, University of Birmingham, Birmingham, UK, 10.1.2018.
- Begonja AJ. Platelet function, thrombopoiesis and immune thrombocytopenia.**  
Ljetna škola "Javno zdravstvo i patofiziologija" Saint Cloud State Sveučilište/USA & Odjel za biotehnologiju/Sveučilište u Rijeci. Rijeka, Hrvatska, 16.6.2017.
- Begonja AJ. Platelet function, thrombopoiesis and immune thrombocytopenia.**  
Ljetna škola "Javno zdravstvo i patofiziologija" Saint Cloud State Sveučilište/USA & Odjel za biotehnologiju/Sveučilište u Rijeci. Rijeka, Hrvatska, 17.6.2016.
- Begonja AJ. Filamin A u regulaciji nastanka megakariocita.**  
Dani Medicinskog fakulteta u Rijeci: HAZU 8. znanstvena tribina: biologija i patologija trombocita. Rijeka, 17.12.2015.

**Begonja AJ. From the biggest to the smallest: Filamin A regulates differentiation of megakaryocytes into platelets.**

International Centre for Genetic Engineering and Biotechnology (ICGEB). Trst , Italija. 17.11.2015.

**Begonja AJ. Platelet function, thrombopoiesis and immune thrombocytopenia.**

Ljetna škola "Javno zdravstvo i patofiziologija" Saint Cloud State Sveučilište/USA & Odjel za biotehnologiju/Sveučilište u Rijeci. Rijeka, Hrvatska, 23.6.2015.

**Begonja AJ. Molekularni mehanizmi razvoja megakariocita i trombocita.**

6. simpozij Hrvatske akademije znanosti i umjetnosti: Razvojna biologija trombocita, trombocitopenije i mijeloproliiferativne neoplazme. Rijeka, Hrvatska, 12.3.2015.

**Begonja AJ. Sva lica trombocita.**

Tribina Hrvatske akademije znanosti i umjetnosti: Novija postignuća u imunologiji i hematologiji. Rijeka, Hrvatska, 15.10.2014.

**Begonja AJ. The Many Faces of Filamin A in Megakaryocytes.**

Institute for Clinical Biochemistry and Pathobiochemistry, University of Würzburg, Njemačka. 9. 12.2013.

**Begonja AJ. New Insights on Mechanisms of Platelet Production.**

3rd Congress of Croatian Physiological Society and 1st Regional Congress of the Physiological Societies, Rijeka, Croatia. 13-15, rujna 2013.

**Begonja AJ. Razvojni put trombocita.**

Odjel za biotehnologiju, Sveučilište u Rijeci, Hrvatska. 14.2.2013.

**Begonja AJ. Filamin A and Thrombopoiesis.**

Center for Thrombosis and Haemostasis, Mainz, Germany. 27.2.2012.

**Begonja AJ. Differential role of cAMP and cGMP in megakaryocyte differentiation from mouse fetal liver stem cells.**

Children's Hospital Boston, USA. 8.12.2008.

**Begonja AJ. Uloga cikličkih nukleotida u razvoju megakariocita.**

Hrvatsko društvo medicinskih biokemičara, Split, Hrvatska. 18.4.2007.

**Begonja AJ, Gambaryan S, Walter U. cGMP/cAMP Signaling in Megakaryocyte and Platelet Production.**

SFB 688 Meeting, Würzburg, Germany. 14.12.2006.

**Begonja AJ, Gambaryan S, Walter U. Platelet Regulation by NAD(P)H Oxidase-Generated ROS and NO/cGMP Signaling.**

Brigham and Women's Hospital, Harvard Medical School, Boston, USA. 21.9.2006.

**Begonja AJ, Gambaryan S, Walter U. Function of ROS in Platelets.**

14th Virtual Platelet Meeting Club, Würzburg, Germany. 14.12.2005.

**ODABRANA KONFERENCIJSKA PRIOPĆENJA****Bertović I, Kurelić R, Krauss M, Haucke V, Jurak Begonja A. PI3P modulates megakaryocyte maturation and platelet production through late endosomes/lysosomes. (Predavanje, poster)**

Keystone Symposia: Phosphoinositide Biology: New Therapeutic Targets Beyond Class I PI3K, Taos, NM, SAD, 11-15.2. 2018.

**Marcelic M, Mahmutefendic H, Jurak Begonja A, Blagojevic Zagorac G, Karleusa Lj, Jug N, Lukanovic Juric S, Pavisic V, Lucin P. PI3P is important for early phase endosomal retention compartment (EPERC) formation in MCMV infected fibroblasts. (Predavanje, poster)**

4. kongres hrvatskog fiziološkog društva, Dubrovnik, Croatia, 21-24. rujna, 2017.

**Cokaric Brdovčak M, Djaković L, Bertović I, Knežević K, Jurak Begonja A, Malatesti N, Jurak I. Efficient photodynamic inhibition of hsv-1 replication using a novel cationic amphiphilic porphyrin. (Poster)**

7. kongres slovenskog mikrobiološkog društva, Bled, Slovenija, 20-22. rujna 2017.

Bertović I, Krauss M, Haucke V, **Jurak Begonja A.** Bertović I, Krauss M, Haucke V, **Jurak Begonja A.** **Membrane traffic modulating lipid PI3P regulates platelet production. (Predavanje, poster) – NAGRADA ZA NAJBOLJU USMENU PREZENACIJU, I. Bertović**  
1<sup>st</sup> Italian-UK Platelet Meeting, Bath, Velika Britanija, 7-8. rujna 2017.

Bertović I, Krauss M, Haucke V, **Jurak Begonja A.** **Membrane traffic modulating lipid PI3P regulates platelet production. (Poster)**  
2<sup>nd</sup> International Advances in Biomedical Research conference, MedILS, Split, Hrvatska, 3 -7. srpnja 2017.

Bertović I, Krauss M, Haucke V, **Jurak Begonja A.** **Phosphatidylinositol 3-monophosphate (PI3P) regulates megakaryocyte maturation and proplatelet formation. (Poster)**  
FEBS/EMBO Advanced Lecture Course: Molecular Architecture, Dynamics and Function of Biomembranes, Cargèse, Corsica, Francuska, 12-21.6.2017. – **FEBS Youth Travel Fund fellowship I. Bertović**

Bertović I, Krauss M, Haucke V, **Jurak Begonja A.** **Differential levels and localization of PI3P in immature and mature megakaryocytes. (Poster)**  
Gordon Research Conference: Cell biology of megakaryocytes and platelets. Barga, Italija, 26.2. – 3.3. 2017. – **invited discussion leader**

Bertović I, Banović M, Paskvan P, Hartwig JH, **Jurak Begonja A.** **Phosphatidylinositol 3-monophosphate (PI3P) regulates proplatelet formation *in vitro*. (Poster) - NAGRADA ZA NAJBOLJU POSTER PREZENACIJU, I. Bertović**  
3<sup>rd</sup> EUPLAN (European Platelet Network) Conference, Bad Homburg, Njemačka. 21-23. rujna, 2016.

Bertović I, **Jurak Begonja A.** **Phosphatidylinositol 3-monophosphate (PI3P) is required for platelet production *in vitro*. (Poster)**  
Croatian Academy of Sciences and Arts 14<sup>th</sup> Symposium: Translation of basic immunology and neuroscience tools to therapies; Rijeka, Croatia; July 4<sup>th</sup> 2016.

Bertović I, Banović M, Hartwig JH, **Jurak Begonja A.** **Expression of PI3P binding phox (PX) domain inhibits megakaryocyte development into proplatelets. (Poster)**  
Biochemical Society UK & FEBS, Signalling 2015: Cellular Functions of Phosphoinositides and Inositol Phosphates; Cambridge, UK; September 1-4 2015.

Giannini S, Adelman M, **Jurak Begonja A.**, Hoffmeister KM. **Beta galactosyltransferase (B4GALT1) is a key regulator of hematopoietic stem cell function and thrombopoiesis. (Predavanje)**  
International Society of Thrombosis and Hemostasis Congress, Toronto, Kanada; 20-25.6. 2015.

Giannini S, Adelman M, **Begonja AJ**, Mullally A, Hoffmeister KM. **Beta 1,4 Galactosyltransferase 1 is a key regulator of hematopoietic stem cell function and thrombopoiesis. (Poster)**  
Gordon Research Conference, Barga, Italy, April 19-24, 2015.

Grozovsky R, **Begonja AJ**, Hartwig JH, Falet H, Hoffmeister KM; **The Ashwell-Morell Receptor Regulates Hepatic Thrombopoietin Production Via JAK2-STAT3 Signaling *in Vivo* and *in Vitro*.** *Blood* 2014 vol. 124, issue 21, 2. (**Plenarno predavanje**)  
56<sup>th</sup> American Society of Hematology Meeting, San Francisco, CA, USA, December 6-9, 2014.

Giannini S, Adelman M, **Begonja AJ**, Hoffmeister KM. **Posttranslational Modification in Megakaryocytes Regulates  $\beta$ 1 Integrin Expression, Migration and Platelet Production *in Vivo*.** *Blood* 2014 vol. 124, issue 21, 1435. (**Poster**)  
56<sup>th</sup> American Society of Hematology Meeting, San Francisco, CA, USA, December 6-9, 2014.

**Begonja AJ, Grozovsky R, Hoffmeister KM, Falet H, Hartwig JH.** **Filamin A stabilizes thrombopoietin receptor surface expression and inhibits its degradation. (Predavanje)**  
2<sup>nd</sup> EUPLAN (European Platelet Network) Conference, Le Bischenberg, France. 25-26.9.2014.

Giannini S, **Begonja AJ**, Adelman M, Hoffmeister KM. **Aberrant Type-2-Lactosaminoglycan Synthesis Severely Impairs Thrombopoiesis.** Blood **2013** vol. 122, issue 21, **2320. (Poster)**  
55th American Society of Hematology Meeting, New Orleans, LA, USA, December 5-7, 2013.

Hoffmeister KM, Grozovsky R, **Begonja AJ**, Hartwig JH. **The hepatic Ashwell-Morell receptor regulates thrombopoietin production.** J Throm Haemost 11, (Sup2) p157. International Society on Thrombosis and Haemostasis XXIV Congress, Amsterdam, Netherlands, June 29-July 4, 2013. **(Predavanje)**

Jönsson T, **Begonja AJ**, Bender M, Kim H, Kormann J, Merkl B, Pluthero F, Kahr WH, Hartwig JH, Plomann M, Falet H. **The F-BAR protein PACSIN 2 orchestrates the intracellular membrane architecture of platelets and megakaryocytes. (Poster)**  
Gordon Research Conference, Galveston, TX, USA, March 10-15, 2013.

**Begonja AJ**, Grozovsky R, Hoffmeister KM, Falet H, Hartwig JH. **Filamin A regulates thrombopoietin c-Mpl receptor function. (Poster)**  
Gordon Research Conference, Galveston, TX, USA, March 10-15, 2013.

Grozovsky R, **Begonja AJ**, Hartwig JH, Hoffmeister KM. **Clearance of Desialylated Platelets by the Hepatic Asialoglycoprotein Receptor Regulates TPO Homeostasis in Vivo.** Blood **2012** vol. 120, issue 21, **2170. (Poster)**  
54th American Society of Hematology Meeting, Atlanta, USA, December 8-11, 2012.

**Begonja AJ**, Nguyen L, Italiano JE, Falet H, Meiri K, Hartwig JH. **The neuronal protein GAP-43 associates with microtubules and lipid rafts in platelets and megakaryocytes and is involved in platelet genesis.** Blood **2011** vol. 118, issue 21, **2201. (Poster)**  
53rd American Society of Hematology Meeting, San Diego, USA, December 9-12, 2011.

Jönsson T, **Begonja AJ**, Kormann J, Merkl B, Pluthero F, Kahr WH, Hartwig JH, Plomann M, Falet H. **The F-BAR Protein PACSIN 2 Specifically Coats the Anastomosing Intracellular Membrane Systems of Platelets and Megakaryocytes.** Blood **2011** vol. 118, issue 21, **3261. (Poster)**  
53rd American Society of Hematology Meeting, San Diego, USA, December 9-12, 2011.

**Begonja AJ**, Hoffmeister K, Hartwig JH, Falet H. **FlnA null megakaryocytes prematurely release large and fragile platelets that spontaneously microvesiculate and poorly circulate. (Poster)**  
Gordon Research Conference, Galveston, TX, USA, March 20-25, 2011.

**Begonja AJ**, Weber SE, Hoffmeister KM, Hartwig JH, Falet H. **Filamin A Deficiency Leads to Premature Platelet Formation and Increased Clearance.** Blood **2010** vol. 116, issue 21, **2207. (Poster)**  
52nd American Society of Hematology Meeting, Orlando, USA, December 4-7, 2010.

**Begonja AJ**, Weber SE, Falet H, Hartwig JH. **Aberrant Thrombopoiesis in Filamin A-Null Megakaryocytes Generates Abnormal Platelets that are Rapidly Cleared. (Poster)**  
BWH Research Excellence Awards, Boston, May 25, 2010.

Hartwig JH, **Begonja A**, Falet H, Patel-Hett S, Thon J, Italiano J. **Megakaryocytes and Thrombopoiesis. (Predavanje)**  
International Society on Thrombosis and Haemostasis XXII Congress, Boston, USA, July 11-16, 2009.

**Begonja AJ**, Gambaryan S, Schulze H, Patel-Hett S, Italiano Jr. JE, Hartwig J, Walter U. **Differential Roles of cAMP and cGMP in Megakaryocyte Maturation and Platelet Formation. (Poster)**  
International Society on Thrombosis and Haemostasis XXII Congress, Boston, MA, USA, July 11-16, 2009.



## POPULARIZACIJA ZNANOSTI

- *Što je krv?* Laboratorij za hematopoezu, Odjel za biotehnologiju, Sveučilište u Rijeci. **Otvoreni dan Sveučilišnih odjela, Festival znanosti** 17. travnja 2018.
- *Što je laboratorij? Kako istraživati krv?* Posjet osnovne škole "Belvedere" Odjelu za biotehnologiju, Sveučilišta u Rijeci 7. lipnja 2017.
- *Tekućine u našem tijelu.* Posjet dječjem vrtiću "Maestral", Rijeka 12. svibnja 2017.
- *Što je krv?* Laboratorij za hematopoezu, Odjel za biotehnologiju, Sveučilište u Rijeci. **Otvoreni dan Sveučilišnih odjela, Festival znanosti** 25. travnja 2017.
- Akademska karijera: međunarodno i domaće iskustvo. Konferencija Udruge studenata Biotehnologije "Budućnost i perspektiva studija", Odjel za biotehnologiju, Sveučilište u Rijeci 8. prosinca 2016.
- *Što je krv?* Laboratorij za hematopoezu, Odjel za biotehnologiju, Sveučilište u Rijeci. **Otvoreni dan Sveučilišnih odjela, Festival znanosti** 19. travnja 2016.
- *Nova otkrića u području hemostaze i tromboze.* Novi list. 9. siječnja 2015.
- *Borba za svaku pločicu.* Novi list. (intervju u dnevnim novinama) 22. ožujka 2015.
- *Zakrpe u vašoj krvi.* Odjel za biotehnologiju, Sveučilište u Rijeci. **Otvoreni dan Sveučilišnih odjela, Festival znanosti** 8. travanj 2014.
- Posjet djece 7. razreda osnovne škole Cres Odjelu za biotehnologiju 11. travanj 2014.
- Posjet djece predškolske dobi vrtića "Đurđice" Odjelu za biotehnologiju 6. lipnja 2014.

## NASTAVA

Gost predavač, diplomski studij Biotehnologije i farmacije, Fakultet biomedicinskih znanosti, Sveučilište Europe Madrid, Španjolska  
**7-9.5.2014.**

Odjel za biotehnologiju, Sveučilište u Rijeci:  
 Voditelj, preddiplomski studij (Biotehnologija i istraživanje lijekova)  
**2013 - Biologija matičnih stanica**  
**2015 - Opća fiziologija i patofiziologija**

Suradnik, preddiplomski studij i diplomski studij  
**2014 - Imunologija**  
**2014 - Uvod u znanstveni rad**

Suradnik, doktorski studij Medicinska kemija  
**2017 - Uvod u znanstveni rad**  
**2017 - Molekularna virologija i imunologija**

**MENTORSTVO DIPLOMSKIH RADOVA**

2016/2017 **Roberta Kurelić**: “Analiza ranih i kasnih endosoma u razvojnim fazama mišjih megakariocita”

2015/2016 **Paola Paškvan**: “Kloniranje, mutageneza i karakterizacija fosfatidilinozitol 3-monofosfat vezujućih domena u HEK293T i primarnim megakariocitima”

2014/2015 **Marija Banović**: “Ekspresija i funkcija VPS34 u nastanku protrombocita” – *nagrada “Zoran Zgaga” za najbolji diplomski rad (Hrvatska udruga genetičkih inženjera)*

2013/2014 **Romina Sabo**: “Uloga filamin A u lokalizaciji trombopoetinskog receptora”

**KOMENTORSTVO DIPLOMSKIH RADOVA**

2016/2017 **Nina Volf**: “Razumijevanje slabe sposobnosti angiogeneze odraslog srca”

2015/2016 **Kristina Žuža**: “Razvoj dvostrukog luciferaznog reporter eseja za in vivo detekciju miRNA genskog utišavanja”

2014/2015 **Ana-Marija Vučković**: “Istraživanje ferroptoznog inhibitora GPx4”

2011/2012 **Mehrshad Aschmann**: “A role for microtubule sliding in platelet production” (Brigham & Women’s Hospital, Harvard Medical School, Boston, SAD)

2010/2011 **Julia Sjodin** (Brigham & Women’s Hospital, Harvard Medical School, Boston, SAD)

2009/2010 **Teresse Joensson** (Brigham & Women’s Hospital, Harvard Medical School, Boston, SAD)

**MENTORSTVO ZAVRŠNIH RADOVA**

2016/2017 **Roberta Padavić**: “Matične stanice kao izvor megakariocita i trombocita”

2016/2017 **Andrea Mihalić**: “Novi potencijalni interakcijski partneri: PI3P i protein kinaza A”

2016/2017 **Martina Nenadić**: “Evaluacija fosfoinozididnih fosfataza u transkriptomu i proteomu ljudskih i mišjih trombocita”

2015/2016 **Ana Bura**: “Uloga fosfoinozitida u prometu unutarstaničnih membrana”

2015/2016 **Iris Car**: “Molekularni mehanizmi nastanka trombocita ”

2014/2015 **Marta Ursić**: “Regulacija prometa receptora filaminom A”

**NACIONALNA I MEĐUNARODNA PREPOZNATLJIVOST**

- Član panela Hrvatske zaklade za znanost, Biomedicina i zdravstvo, Temeljne medicinske znanosti, od 2016.
- Recenzent za HRZZ projekte, od 2016.
- Pozvani voditelj sekcije (“Discussion leader”) - Gordon Research Conference “Cell Biology of Megakaryocytes and Platelets” Barga, Italija, 26.2. – 3.3.2017.