

## OSOBNJE INFORMACIJE

Ime i prezime

**Miranda Mladinić Pejatović**

Adresa

**Odjel za biotehnologiju Sveučilišta u Rijeci, Radmile Matejčić 2, 51000 Rijeka**

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## RADNO ISKUSTVO

- Datumi (od – do)
- Ustanova zaposlenja
- Područje djelovanja
- Naziv radnog mjesta
  - Aktivnosti

### **2013-danas**

#### **Odjel za biotehnologiju Sveučilišta u Rijeci**

Visoko obrazovanje

Izvanredni profesor

Nastava i znanstveno istraživanje:

- Voditelj kolegija Farmakologija i Molekularna neurobiologija
- Sudjelovanje u nastavi kolegija: Personalizirana medicina, Tkivno inženjerstvo, Nanomedicina, Fiziologija, Introduction to Neuroscience, International Summer School in Pathophysiology and Public Health
- Istraživanje: područje molekularne neurobiologije (istraživanje molekularnih i staničnih mehanizama uključenih u patofiziologiju ozljeda leđne moždine i živčanu regeneraciju)

Institucijske funkcije:

Zamjenica Pročelnice odjela za biotehnologiju Sveučilišta u Rijeci (od travnja 2018.)

Predstojnik Zavoda za molekularnu i sistemsku medicinu (od studenog 2016) Erasmus koordinator / član povjerenstva za međunarodnu suradnju Odjela za biotehnologiju (2015-2018)

Član Stegovnog povjerenstva Odjela za biotehnologiju Sveučilišta u Rijeci (od 27.11.2015)

Član Savjeta Senata Sveučilišta u Rijeci (od 2016)

Član Savjeta za znanost Sveučilišta u Rijeci (od 22.11.2016)

Član Povjerenstva za izradu analize i stanja i prijedloga mjera s ciljem razvoja Odjela za biotehnologiju Sveučilišta u Rijeci (od 9.10.2017)

Član Sručnog Vijeća Centra za studije Sveučilišta u Rijeci (od travnja 2018)

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### **2015 (svibanj-listopad)**

#### **SISSA Trieste, Neurobiology Department, Trst, Italija**

Visoko obrazovanje

Gostujući profesor

### **2009-2013**

**Spinal Persons Injury Neurorehabilitation Applied Laboratory (SPINAL)**, Institut of Fisical Medicine and Rehabilitation (IMFR) Udine, u suradnji sa SISSA/ISAS (Scuola Internazionale Superiore di Studi Avanzati/International School for Advanced Studies, SISSA/ISAS) Trst, Italija

Znanstveno-istraživačka djelatnost

Istraživač

Istraživački projekt "Molecular mechanisms of cell death after spinal cord injury" (djelatnost je uključivala mentoriranje diplomanada, doktoranada i post-doktoranada)

- Područje djelovanja
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## OBRAZOVANJE

- Datumi (od-do)
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- Kvalifikacija

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## OSOBNJE VJEŠTINE I KOMPETENCIJE

MATERINJI JEZIK

STRANI JEZICI

## ORGANIZACIJSKE VJEŠTINE I KOMPETENCIJE

**2009**

**Odjel za biotehnologiju Medicinskog fakulteta Sveučilišta u Trstu**

Visoko obrazovanje

Predavač – vanjski suradnik

Voditelj kolegija Virtualni laboratorij molekularne biologije

**1993-2008**

**SISSA Trieste, Neurobiology Department, Trieste, Italy**

Znanstveno-istraživačka djelatnost

Istraživač (2001-2008)

Post-doktorand (1998-2000)

PhD student (1993-1997)

Znanstveno istraživanje (područje molekularne neurobiologije)

**1992-1993**

**Sveučilište u Zagrebu, Prirodoslovno-matematički fakultet, Odjel molekularne biologije**

Visoko obrazovanje

Asistent

Asistent iz kolegija Genetika, Populacijska Genetika, te Mutageneza i kancerogeneza

**1990-1991**

**Sveučilište u Ljubljani, Medicinski fakultet, Institut za biokemiju**

Znanstveno istraživanje

Diplomand

Izrada diplomskog rada "Rekombinantna DNA tehnologija u prenatalnoj diagnostici cistične fibroze"

**1993-1997**

**SISSA/ISAS, Trieste, Italy**

***Doctor of Philosophy in Biophysics***

- inozemna visokoškolska kvalifikacija priznata od strane Nacionalnog ENIC/NARIC ureda za potrebe zapošljavanja u Republici Hrvatskoj 2009. godine

**1986-1992**

**Sveučilište u Zagrebu, Prirodoslovno-matematički fakultet**

***Diplomirani inženjer Molekularne Biologije***

**hrvatski**

**engleski, talijanski**

Tijekom mog rada na SISSA-i u Trstu vodila sam, organizirala i nadgledala rad međunarodne grupe istraživača u kojoj su bili uključeni studenti (diplomandi i doktorandi) i znanstvenici (post-doktorandi i inozemni gosti profesori). Isto tako, razvila sam i međunarodnu znanstvenu suradnju (Sveučilište San Paolo, Brazil i Sveučilište Melbourne, Australija), koja je rezultirala objavljivanjem zajedničkih znanstvenih radova.

Od 2013. godine na Odjelu za biotehnologiju Sveučilišta u Rijeci stvaram istraživačku grupu koja se bavi istraživanjem endogenih matičnih stanica leđne moždine sisavaca i njihovoj ulozi u regenerativnim sposobnostima živčanog tkiva i koja je ostvarila značajnu međunarodnu suradnju koja je rezultirala objavljivanjem kvalitetnih znanstvenih radova, te dobivanjem međunarodnih i nacionalnih financijskih potpora.

## TEHNIČKE VJEŠTINE I KOMPETENCIJE

### Metode molekularne biologije, stanične biologije, elektrofiziologije i tkivnog inženjerstva

## DIDAKTIČKO ISKUSTVO

### Sveučilišna nastava:

- **Sveučilište u Zagrebu, 1992-1993**, asistent iz prediplomskih kolegija: *Genetika, Populacijska genetika, Mutageneza i kancerogeneza*
- **SISSA, Trst, 2001-2002**, suradnik na doktorskom kolegiju: *Metode molekularne biologije*
- **Sveučilište u Trstu, 2009**, voditelj prediplomskog kolegija *Virtualni laboratorij molekularne biologije*
- **Sveučilište u Rijeci, 2012-danas**, voditelj prediplomskih kolegija *Molekularna Neurobiologija i Farmakologija za biotehnologe*; suradnik na kolegijima *Personalizirana medicina, Tkivno inženjerstvo, Nanomedicina, Fiziologija*

### Mentorstvo i komentorstvo

- **2002, Marie Wintzer** "Genes differently expressed in neonatal opossum spinal cord in animals that can or cannot regenerate after injury", SISSA, **PhD** (komentor s Prof. J.G. Nichollsom)
- **2009, Chiara Mattioli** "Studies of spinal locomotor networks in vitro: lessons from experimental damage and neuroprotection", University of Trieste u suradnji sa SISSAom, **MSc** (komentor s Prof. A. Nistri)
- **2011, Anujaianthi Kuzhandaivel**, "Molecular mechanisms underlying cell death after spinal cord injury" SISSA, **PhD** (komentor s Prof. A. Nistri)
- **2013, Sohely Ashraf**, "Study of developmental stages of microglia in spinal cord explants and organotypic culture" SISSA, **MSc** (komentor s Prof. A. Nistri)
- **2013, Elena Bianchetti** "Cell death neuroprotection and repair mechanisms in a model of rat spinal cord injury in vitro", SISSA, **PhD** (komentor s Prof. A. Nistri)
- **2014, Nina Jurčić** "Investigating role of microglia activation in pathology of spinal cord injury" Odjel za biotehnologiju Sveučilišta u Rijeci, **MSc**
- **2014, Renato Čargonja** "HSP70 antagonizes parthanatos in motoneurons after experimental spinal cord injury in vitro" Odjel za biotehnologiju Sveučilišta u Rijeci, **MSc**
- **2015, Antonela Petrović**, "Role of HSP70 and HSP90 in motoneuronal death after experimental spinal cord injury" Odjel za biotehnologiju Sveučilišta u Rijeci, **MSc**
- **2015, Dominika Došen**, "Characterization of the spinal cord ependymal cells in opossum at the time of development when regeneration stops being possible" Odjel za biotehnologiju Sveučilišta u Rijeci, **MSc**
- **2013-2015, Ana Dekanić**, mladi istraživač

### Završni radovi (mentor):

1. **Desiree Željka Brkić**: Endokanabinoidni sustav – njegova uloga u zdravlju i bolesti; obranjen 22.09. 2017.
2. **Eni Tomović**: Neuroregeneracija središnjeg živčanog sustava; obranjen 25.9. 2017.
3. **Katarina Sučić**: Neurobiologija ljubavi; obranjen 13.4.2017.
4. **Petra Linić**: Alzheimerova bolest: molekularne osnove i terapijski pristup; obranjen 29.09. 2017.
5. **Sanja Mikašinović**: Molekularne osnove šizofrenije; obranjen 25.9.2017.
6. **Marija Begić**: Potencijalni farmakološki učinci histamina, te agonista i antagonist

njegovih receptora: sadašnjost i budućnost; obranjen 8.9.2016.

**Trenutno mentoriram rad sljedećih mladih znanstvenika:**

**Antonela Petrović**, doktorand (SISSA/SvRi)

**Ivana Tomljanović**, doktorand (SvRi)

**Zrinko Baričević**, doktorand (SvRi)

**Tatiana Grouin**, diplomand (Université de Cergy, Fr)

**Sanja Mikašinović**, diplomand (SvRi)

**DODATNE INFORMACIJE**

**Financijske potpore**

2018-2021 stipendija za doktoranda-asistenta, HRZZ

2017-2021 Istraživački projekt Hrvatske zaklade za znanost (HRZZ) IP-2016-06-7060 "Istraživanje granice između neurodegeneracije i neuroregeneracije: identifikacija ključnih molekula pomoću proteomike i funkcionalnih testova na leđnoj moždini sisavaca (DefineREgenAgeMode)"

2015-18 stipendija za doktoranda-asistenta (A. Petrović), HRZZ

2014-17 ICGEB - CRP Research Grant CRP/CRO14-03

2013-15 European Social Fund – DIANET (FP1328788001; stipendija za A. Dekanić)

2011-13 IBRO Return Home Program Grant

2001 Young Researcher Grant A.AC.BIOF.136, Italian Ministry of Science and Technology

1993-97 UNIDO International Ph.D. fellowship

**Nagrade**

2015. izabrana za najboljeg predavača od strane studenata Odjela za biotehnologiju Sveučilišta u Rijeci

**Urednik za časopis**

Asian Journal of Neuroscience

BioMed Research International

Journal of Spine

**Recenzent za međunarodne časopise**

African Journal of Traditional, Complementary and Alternative Medicines (AJTCAM)

Brain Research

Cellular and Molecular Neurobiology (CEMN)

Developmental Neurobiology

Frontiers in Neuroscience

European Journal of Neuroscience

International Journal of Stem cell Research & Therapy

Journal of Neurological Sciences

Journal of Neurotrauma

Neural Regeneration Research

Neuroscience  
Neurosignals  
PloS ONE  
Synapse

#### **Recenzent za nacionalne i međunarodne znanstvene projekte**

- 2017 Recenzent (izvjestitelj) u znanstvenom panelu Hrvatske zaklade za znanost: Prirodne znanosti: Panel PZ-1- Biologija
- 2016 PRIN 2015 (Progetti di ricerca di Rilevante Interesse Nazionale); Ministero dell'Istruzione, dell'Università e della Ricerca (MIUR); Italy
- 2011 Catalan Agency for Information, Assessment and Quality, CAHIAQ, AATRM Cahta Research, TV3 Marató Foundation, Barcelona, Spain
- 2006 ALW Open Programme, Earth & Life Sciences Council, Hague, Netherlands

#### **POZVANA PREDAVANJA**

- 2016 8. Hrvatski kongres farmakologije s međunarodnim sudjelovanjem, Split, 15-18. rujan 2016: The role of ATF3 transcription factor in endogenous spinal stem cell activation and spinal cord regeneration
- 2016 The Croatian Academy of Sciences and Arts and University of Rijeka, July 4th 2016: Translation of basic immunology and neuroscience tools to therapies: Where are we now?
- 2014 Croatian Academy of Science and Art and University of Rijeka, Department of Clinical and Transplantation Immunology and Molecular Medicine in Rijeka, University of Rijeka, Department of Biotechnology, July 7, Rijeka, Symposium: Temeljna i translacijska neurokemija: glia i neuroni u zdravlju i bolesti / Basic And Translational Neurochemistry: Glia And Neurons In Health And Disease
- 2014 Croatian Academy of Science and Art and University of Rijeka, March 7, Rijeka, Symposium: Personalized medicine: a new medical and social Challenge, „Personalised medicine and neuroscience“.
- 2013 Society for Neuroscience, Nov 9-13, San Diego, California, IBRO Alumni Symposium „Locomotor network activity after acute spinal cord injury in vitro: insight into basic cell death mechanisms“
- 2013 7th Croatian Congress of Pharmacology with International Participation, Zagreb. 18-21 Sept "Molecular and cellular mechanisms involved in the early phase of the spinal cord injury."
- 2013 XVII Young Neuroscientists Meeting, 13th June, SISSA, Trieste – Chairman
- 2013 Workshop on Recent advances in the pathophysiology and neurorehabilitation of spinal lesions – Recenti sviluppi nella fisiopatologia e neuroriabilitazione delle lesioni spinali, SISSA

- Trieste, April 13. „Molecular mechanisms for cell death after acute spinal injury in vitro“
- 2012 XVI Young Neuroscientists Meeting, 28th June, Medical School, University of Ljubljana, - Chairman
- 2012 Traumatic brain injury and neurological diseases: From bench to bedside. Faculty of Medicine, University of Rijeka, March 1-2 „Molecular mechanisms of cell death triggered by spinal injury“
- 2010 6th Croatian Congress of Pharmacology with International Participation, Opatija, September 15-18 „Molecular mechanisms underlying neuronal death after spinal cord injury“
- 2009 Seconda Giornata di Aggiornamento in Scienza dell'Animale da Laboratorio, Trieste, 21-22 maggio „Molecular changes in developing opossum spinal cord at stages when regeneration can and cannot occur after injury '
- 2008 Recent advances in spinal cord injury research, February 16-17, 2009, SISSA, Basovizza Campus, Trieste and IMFR, ASS4, Udine „Cell death and survival in experimentally lesioned neonatal rat spinal cord“
- 2001 The Segerfalk Symposium on Principles of Spinal Cord Function, Plasticity and Repair, Ystad, Sweden, 22-25th September „Changes in mRNA content of developing opossum spinal cord at stages when regeneration can and cannot occur“
- 1996 The First ICGEB Symposium, Trieste, Italy 25-26th June „Molecular characterization of a novel GABA receptor present in the neonatal hippocampus“
- 1995 Human Capital & Mobility Programme; GABA Network Meeting, Trieste, Italy, 8th April 19 „A new GABA receptor transiently expressed in hippocampus of neonatal rats“

## PUBLIKACIJE

1. **Mladinic M**, Becchetti A, Didelon F, Bradbury A, Cherubini E. (1999) Low expression of the ClC-2 chloride channel during postnatal development: a mechanism for the paradoxical depolarizing action of GABA and glycine in the hippocampus. Proc R Soc Lond B Biol Sci 266: 1207-1213.
2. **Mladinic M**, Didelon F, Cherubini E, Bradbury A. (2000) "Specific" oligonucleotides often recognise more than one gene: the limits of in situ hybridization applied to GABA receptors. J Neurosci Methods 98: 33-42.
3. Didelon F, **Mladinic M**, Cherubini E, Bradbury A. (2000) Early expression of GABAA receptor delta subunit in the neonatal rat hippocampus. J Neurosci Res 62: 638-643.

4. Didelon F, Sciancalepore M, Savic N, **Mladinic M**, Bradbury A, Cherubini E. (2002)  $\gamma$ -Aminobutyric acidA  $\alpha$  receptor subunits in the developing rat hippocampus. *J Neurosci Res* 67: 739-744.

5. **Mladinic M**, Wintzer M. (2002) Changes in mRNA content of developing opossum spinal cord at stages when regeneration can and cannot occur after injury. *Brain Res Brain Res Rev* 40: 317-324.

6. Wintzer M, **Mladinic M**, Lazarevic D, Casseler C, Cattaneo A, Nicholls J. (2004) Strategies for identifying genes that play a role in spinal cord regeneration. *J Anat* 204: 3-11.

7. **Mladinic M**, Wintzer M, Del Bel E, Casseler C, Lazarevic D, Crowella S, Gustincich S, Cattaneo A, Nicholls J. (2005) Differential expression of genes at stages when regeneration can and cannot occur after injury to immature mammalian spinal cord. *Cell Mol Neurobiol* 25: 407-426.

8. **Mladinic M**, Del Bel E, Nicholls J. (2007) Increase of annexin 1 immunoreactivity in spinal cord of newborn opossum (*Monodelphis domestica*) at the time when regeneration after injury stops being possible. *Histol Histopathol* 22: 1205-1211.

9. **Mladinic M**. (2007) Changes in cAMP levels in the developing opossum spinal cord at the time when regeneration stops being possible. *Cell Mol Neurobiol* 27: 883-888.

10. Taccola G, Margaryan G, **Mladinic M**, Nistri A. (2008) Kainate and metabolic perturbation mimicking spinal injury differentially contribute to early damage of locomotor networks in the in vitro neonatal rat spinal cord. *Neuroscience* 155: 538-555.

11. **Mladinic M**, Muller KJ, Nicholls JG. (2009) Central nervous system regeneration: from leech to opossum. *J Physiol* 587(Pt 12): 2775-2782.

12. Margaryan G, **Mladinic M**, Mattioli C, Nistri A. (2009) Extracellular Mg<sup>2+</sup> enhances the damage to locomotor networks produced by metabolic perturbation mimicking spinal injury in the neonatal rat spinal cord in vitro. *Neuroscience* 163: 669-682.

13. Del Bel EA, da Silva CA, **Mladinic M**. (2009) O trauma raquimedular/The spinal cord injury/EI trauma raquimedular. *COLUNA/COLUMNA*, 8:1-9.

14. Taccola G, **Mladinic M**, Nistri A. (2010) Dynamics of early locomotor network dysfunction following a focal lesion in an in vitro model of spinal injury. *Eur J Neurosci*, 31: 60–78.

15. Margaryan G, Mattioli C, **Mladinic M**, Nistri A. (2010) Neuroprotection of locomotor networks after experimental injury to the neonatal rat spinal cord in vitro. *Neuroscience*, 165:996–1010.

16. Nistri A, Taccola G, **Mladinic M**, Margaryan G, Kuzhandaivel A. (2010) Deconstructing locomotor networks with experimental injury to define their membership. *Ann. N.Y. Acad. Sci.*, 1198:242-251.

17. Mazzone GL, Margaryan G, Kuzhandaivel A, Ebrahimi Nasrabad S, **Mladinic M**, Nistri A. (2010) Kainate-induced delayed onset of excitotoxicity with functional loss unrelated to the extent of neuronal damage in the in vitro spinal cord. *Neuroscience*, 168:451-462.

18. Kuzhandaivel A, Margaryan G, Nistri A, **Mladinic M**. (2010) Extensive occurrence of glial apoptosis develops early after hypoxic-dysmetabolic insult to the neonatal rat spinal cord in vitro. *Neuroscience*, 169:325-338.

19. Kuzhandaivel A, Nistri A, **Mladinic M**. (2010) Kainate-mediated excitotoxicity induces neuronal death in the rat spinal cord in vitro via a PARP-1 dependent cell death pathway (parthanatos). *Cell Mol Neurobiol*, 30:1001–1012.

20. **Mladinic M**, Lefevre C, Del Bel E, Digby M. (2010) Developmental changes of gene expression after spinal cord injury in neonatal opossums. *Brain Res*, 1363:20-39.

21. Nasrabad SE, Kuzhandaivel A, **Mladinic M**, Nistri A. (2011) Effects of 6,5-(H)phenanthridinone, an inhibitor of poly(ADP-ribose)polymerase-1 activity (PARP-1), on locomotor networks of the rat isolated spinal cord. *Cell Mol Neurobiol*, 31:503-508.

22. Kuzhandaivel A, Nistri A, Mazzone GL, **Mladinic M**. (2011) Molecular mechanisms underlying cell death in spinal networks in relation to locomotor activity after acute injury in vitro. *Front Cell Neurosci* 5:9.

23. Cifra A, Mazzone GL, Nani F, Nistri A and **Mladinic M**. (2012) Postnatal developmental profile of neurons and glia in motor nuclei of the brainstem and spinal cord, and its comparison with organotypic slice cultures. *Developmental Neurobiology*, 72:1140-1160.



#### **OD ZADNJEG IZBORA:**

**24. Mladinic M**, Andrea N. (2013) Microelectrode arrays in combination with in vitro models of spinal cord injury as tools to investigate pathological changes in network activity: facts and promises. *Frontiers in Neuroengineering*, 6:2.

**25. Bianchetti E, Mladinic M, Nistri A.** (2013) Mechanisms underlying cell death in ischemia-like damage to the rat spinal cord in vitro. *Cell Death Dis.* 4:e707.

**26. Mazzone GL, Mladinic M, Nistri A.** (2013) Excitotoxic cell death induces delayed proliferation of endogenous neuroprogenitor cells in organotypic slice cultures of the rat spinal cord. *Cell Death Dis.* 4:e902.

**27. Mladinic M, Bianchetti E, Dekanic A, Mazzone GL, Nistri A.** (2014) ATF3 is a novel nuclear marker for migrating ependymal stem cells in the rat spinal cord. *Stem Cell Res.* 12:815-27.

**28. Mladinic M, Nistri A.** (2014) The differential intracellular expression of the novel marker ATF-3 characterizes the quiescent or activated state of endogenous spinal stem cells: a tool to study neurorepair? *J Spine*, 3:3. (Editorial)

**29. Mladinic M, Nistri A.** (2015) Dynamic expression of ATF3 as a novel tool to study activation and migration of endogenous spinal stem cells and their role in neural repair. *Neural Regen Res*, 10(5):713-714. (Perspective)

**30. Mladinic M, Nistri A, Dekanic A.** (2015) How the discovery of neuronal stem cells have changed neuroscience and perspective for the therapy for central nervous system illnesses. *Period Biol*, 117:185-192.

**31. Shabbir A, Bianchetti E, Cargonja R, Petrovic A, Mladinic M, Pilipović K, Nistri A.** (2015) Role of HSP70 in motoneuron survival after excitotoxic stress in a rat spinal cord injury model in vitro. *Eur J Neurosci*, 42:3054-65.

**32. Petrovic A, Veeraraghavan P, Olivieri D, Nistri A, Jurcic N. Mladinic M.** Dysfunction of locomotor networks in the rat spinal cord during prolonged maintenance in vitro is caused by time-dependent loss of inhibitory synapses. *IBRO Rep.* U reviziji.

#### **POGLAVLJA U KNJIZI**

**Mladinic M, Nistri A, Taccola G.** "Acute spinal cord injury in vitro: insight into basic mechanisms" Chapter 3 (pg 39-63) in the book: *Animal Models in Spinal*

Cord Repair (ed. Aldskogius H), Neuromethods, vol.76, Springer Science+Business Media, LLC, Humana Press, **2013**.

**Mladinić Pejatović M & Anzić S.** "Personalized medicine of central nervous system diseases and disorders: looking toward the future" (pg 241-255) in the book: Bodiroga-Vukobrat N et al. (eds.), Personalized Medicine, Europeanization and Globalization 2, Springer International Publishing Switzerland **2016**. DOI 10.1007/978-3-319-39349-0\_12

#### **CITACIJSKI POKAZATELJI (prema Google Scholaru)**

|           |                    |
|-----------|--------------------|
| Citati    | 570 (od 2013: 302) |
| h-index   | 17 (od 2013: 12)   |
| i10-index | 20 (od 2013: 12)   |

#### **WEB STRANICE**

##### **GOOGLE SCHOLAR:**

<https://scholar.google.it/citations?user=rNLI0AAAAJ&hl=it&oi=ao>

**CROSBİ:** <http://bib.irb.hr/lista-radova?autor=195093&period=2007>

**UNIRI PORTFELJ:** <https://portal.uniri.hr/Portfelj/2146>