

**Yona Goldshmit, PhD.**

**CURRICULUM VITAE**

**NAME** YONA GOLDSHMIT, PHD

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**Mobile Phone** +972 585334477

**DATE AND PLACE OF BIRTH** 9/8/1970 UKRAINE

**DATE OF ARRIVAL IN ISRAEL** 1973

**ZAHAL (ISRAELI) MILITARY SERVICE**

Intelligence forces

**MARITAL STATUS** MARRIED

**A. Education**

**PERIODS OF STUDIES**

**1989-1991**

BSc, Hebrew University, Jerusalem, Israel

**Degree / Professional License** Biology **Date Awarded** 1991 *magna cum laude*

**1994-1998**

BPT (Physiotherapy), Tel-Aviv University, Tel-Aviv, Israel

**Degree/ Professional License** Physiotherapy **Date Awarded** 1998 *magna cum laude*

**B. FURTHER STUDIES**

**2000-2001**

MSc, Tel-Aviv University, Tel-Aviv, Israel

**Degree / Professional License** Neurobiochemistry **Date Awarded** 1998 *summa cum laude*  
**Supervision** Ronit Pinkas-Kramarski

**Title** "The effect of NRG on differentiation and survival of PC12-ErbB4 cells"

**Yona Goldshmit, PhD.**

## **2002-2004**

PhD, University of Melbourne, Melbourne, Australia

**Degree / Professional License**    Physiotherapy and Neuroscience

**Date Awarded** 24/2/2005                      **Supervision** Mary Galea, Perry Bartlett and Ann Turnley

**Title**    "Role of EphA4 Receptor in Spinal Cord Regeneration"

## **B. FURTHER STUDIES (POSTDOCTORAL FELLOWSHIP)**

### **2005- 2008 SpinalCure Australia senior Research Fellowship**

Centre for Neuroscience, Melbourne University, Australia

**Subject:** "Blocking EphA4 by using soluble monomeric ligands after spinal cord injury ".  
Advisor: Prof. Perry Bartlett and Prof. Ann Turnley.

**Degree / Professional license** Postdoctoral Fellowship                      **Date Awarded** 2005

### **2008- 2011 Victoria Neurotrauma Initiative (VNI) Research Fellowship**

Anatomy and Developmental Biology Department and then in 2009 at the Australian Regenerative Medicine Institute (ARMI). **Monash University, Australia**

**Subject:** "the role of Ephrins during development and injury in a Primate brain ".  
Advisor: Prof. James Bourne.

**Degree / Professional license** Postdoctoral Fellowship                      **Date Awarded** 2008

## **C. ACADEMIC & PROFESSIONAL ACTIVITIES & ACHIEVEMENTS**

### **C1. Academic Experience**

**2012-2013 Senior Research Fellow**, Australian Regenerative Medicine Institute (ARMI). Monash University, Australia. Independent researcher in Currie Lab

**2013-2015 Research Associate at Ronit pinkas-kramarski's Lab**, "seeking for therapeutic strategies for neurotrauma", we examined the role of EGFR and mTOR pathway in glial scar development after spinal cord injury and in brain cancer. Tel-Aviv university, Israel.

**2015-2016 Teaching**, At Segol School for brain research (2015) and school of physiotherapy (postgraduate program, 2016-2018), Tel-Aviv University "**Neurotrauma-mechanisms and therapeutic approaches**".

**2017-current Teaching**, At School of Physiotherapy (postgraduate program), Tel-Aviv University "**Neurotrauma- mechanisms and therapeutic approaches**".

**2014-currect** Adjunct position, Australian Regenerative Medicine Institute (ARMI). Monash University, Australia.

### **C2. Professional Experience**

**Yona Goldshmit, PhD.**

1998-1999 **Physiotherapist**, Leoinstain rehabilitation centre, Raanana, Israel.

### C3. ACTIVE PARTICIPATION IN SCIENTIFIC MEETINGS

Date	Country	Subject	Role  (oral presentation/ poster/ organizer)
2001	Berlin  Germany	Neuregulin rescues PC12-ErbB4 cells from cell death induced by H <sub>2</sub> O <sub>2</sub> . Regulation of reactive oxygen species levels by phosphatidylinositol 3-kinase	Poster  Gentner symposium in neuroscience
2007	San-Diego USA	EphrinA5- Fc treatment promotes axonal regeneration after spinal cord hemisection in mice	Poster  Society for Neuroscience (USA), 37 <sup>th</sup> Annual Meeting,
2007	Melbourne  Australia	Negative roles of ephrin receptors in regeneration in spinal cord injury	Invited speaker  IBRO International Congress of Neuroscience, workshop about research in spinal cord injury.
2008	Washington USA	Ephrins are responsible for the formation of the mosaic of visual cortical areas in the primate	Poster  38th annual meeting of the Society for Neuroscience (SFN)
2009	Brisbane, Australia	The role of EphA4 in mediating astrocytic gliosis after brain and spinal cord injury- from rodent to primate	Invited speaker  Frontiers in Spinal Cord Research, Queensland Brain Institute
2009	Canberra Australia	The role of Eph/ephrins in the development of visual areas in the primate brain.	Poster  Australian Neuroscience

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			Society, 29 <sup>th</sup> Annual Meeting
2009	Canberra Australia	Comparative analysis of the primary visual cortex (V1) neuronal population in CRX-knockout and wildtype mice	Poster  Australian Neuroscience Society, 29 <sup>th</sup> Annual Meeting
2009	Paris France	The role for EphA4 in the developing and injured visual cortex. 9 <sup>th</sup> European Meeting on Glia Cells in Health and Disease	Poster  9 <sup>th</sup> European Meeting on Glia Cells in Health and Disease
2010	Washington USA	Role of EphA4 during development and after injury in primate brain.	Poster  International Brain Injury Association, 8 <sup>th</sup> world congress IBIA
2011	Australia	Spinal cord regeneration in zebrafish model.	Speaker  12 <sup>th</sup> ANZ zebrafish meeting, Australia New-Zealand
2012	Madison USA	Pro-regenerative mechanisms in spinal cord regeneration using zebrafish model	Invited speaker,  Plenary lecture  10 <sup>th</sup> International Zebrafish Genetics and Development Meeting,
2012	Hobart. Australia	Fgf mediates glial cell bridge formation enabling regeneration after spinal cord injury	Speaker Australian Neurotrauma Symposium (ANS)
2012	Perth. Australia	Fgf regulated glial morphogenesis to support regeneration after spinal cord injury	Invited speaker  Neurotrauma Research Program
2013	Melbourne Australia	FGF mediates glia bridge formation after spinal cord injury in zebrafish and mouse.	Speaker  Australian Neuroscience Society Annual Meeting,

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2014	Sydney Australia	Fgf signaling mediates neurogenesis at the lesion site after spinal cord injury in zebrafish	Speaker  ANZ Zebrafish Conference
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**C4. MEMBERSHIP IN PROFESSIONAL SOCIETIES**

Years (period)	Name of Organization		
2004-2013	Australian Society for Neuroscience		
2007-2011	Society for Neuroscience		

**D. Doctoral Students mentored by candidate**

Years (period)	Name of Student	Subject	Academic Institute	Ph.D/ M.D	In collaboration with
2011-2014	Frisca Frisca	Lysophosphatidic acid signaling in neurogenesis and the establishment of midline axis.	Melbourne University  Monash University	PhD	Kaslin Jan  Pebay Alice
2012-2015	Ophelia Ehrlich	Laminin protein therapies for zebrafish models of MDC1A and muscle regeneration	Monash University	PhD	Peter Currie

**E. M.A./M.Sc. Students**

Irrelevant

**Yona Goldshmit, PhD.****F. Grants**

Years	Investigator* (Principal/other)	Granted by Institute/Company	Total Amount
2005-2008	Principle investigator	SpinalCure Australia Research Fellowship	\$300,000 AUD
2006-2007	Co-Investigator and Chief Scientist	Victoria Neurotrauma Initiative (VNI)	\$573,647 AUD
2008-2011	Principle investigator	Victoria Neurotrauma Initiative (VNI) Research Fellowship	\$330,000 AUD
2011	Principle investigator	Dr Les Erdi OAM's Donation	\$20,000 AUD
2013	Principle investigator	Department of immigration, Israel	90,000 NIS
2015-2016	Principle investigator	Department of Defense, Israel	210,000 NIS

**Patents**

University of Melbourne and University of Queensland. "A method of treatment and agent useful for same" Australian provisional patent application No. 2005001363 filed at Australian Patent Office on 8 Sept 2005.

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## **G. Awards**

- 1999** MSc Research Scholarship, Department of Neurobiochemistry, Tel-Aviv University  
**2002** PhD Dean's Scholarship from the Faculty of Life Sciences, Tel-Aviv University,  
**2002** International Postgraduate Research Scholarship (IPRS) and Melbourne International Research Scholarship (MIRS) from the University of Melbourne, PhD scholarship  
**2004** 4th Asia Pacific Symposium on Neural Regeneration best poster prize  
**2005** Serono Australia Travel Award for attendance at an international conference  
**2006** ANS Paxinos-Watson award for the best publication by a member of the society in 2004- for "**Goldshmit, Y.**, (2004). Axonal regeneration and lack of astrocytic gliosis in EphA4-deficient mice. *J. Neurosci.* 24, 10064-10073." paper.  
**2008** Victoria Neurotrauma Initiative Research Fellowship (AUD \$300,000)  
**2011** Director Award for Best Presentation of the Year "Glia cells mediate spinal cord regeneration in zebrafish model". Australian Regenerative Medicine Institute.  
**2011** Awarded with Dr Les Erdi OAM's Donation to support Yona Goldshmit's work in Regenerative Medicine

## **Scientific Publications**

### **A Books and Monographs**

Non

### **B.1.1 Original Articles**

1. **Goldshmit Y**, Erlich S, Pinkas-Kramarski R. (2001). *J Biol Chem.* 276(49):46379-85. Neuregulin rescues PC12-ErbB4 cells from cell death induced by H<sub>2</sub>O<sub>2</sub>. Regulation of reactive oxygen species levels by phosphatidylinositol 3-kinase. (**Journal ranking Biochemistry and molecular Biology 71/289, Q1; IF 4.258 , citation 90**)
2. **Goldshmit Y**, Erlich S, Pinkas-Kramarski R. (2001). *Cell Mol. Neurobiol.* 21(6):753-69. Neuregulin induces sustained reactive oxygen species generation to mediate neuronal differentiation. (**Journal ranking Cell Biology 131/187, Q3, IF 2.3, citation 27**)
3. Erlich S, **Goldshmit Y**, Lupowitz Z, Pinkas-Kramarski R. (2001). *Neuroscience.* 107(2):353-62. ErbB-4 activation inhibits apoptosis in PC12 cells. (**Journal ranking Neuroscience 95/256, Q2, IF 3.23, citation 39**)
4. **Goldshmit, Y.**, Walters, C.E., Scott, H.J., Greenhalgh, C.J. and Turnley, A.M. (2004). *J. Biol. Chem.* 279, 16349-16355. SOCS2 induces neurite outgrowth by regulation of EGF receptor activation. (**Journal ranking Biochemistry and molecular Biology 171/289, Q1, F 4.258 , citation 41**)
5. Wong. G.S.H., **Goldshmit Y.**, and Turnley, A.M. (2004). *Exp. Neurol.* 187, 171-177. IFN $\gamma$  but not TNF $\alpha$  promotes neuronal differentiation of neural stem cells. (**Journal ranking Neuroscience 51/256, Q1, IF 4.657, citation 113**)
6. Ransome, M.I., **Goldshmit, Y.**, Bartlett , P.F., Waters, M.J. and Turnley, A.M. (2004). *Eur. J. Neurosci.* 19, 2069-2079. Comparative analysis of CNS populations in knockout mice with alterations in GH responsiveness. (**Journal ranking Neuroscience 114/256, Q2, IF 2.975, citation 46**)

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7. **Goldshmit, Y.**, Greenhalgh, C.J. and Turnley, A.M. (2004). *Eur. J. Neurosci.* 20, 2260-2266. Suppressor of cytokine signaling-2 and epidermal growth factor regulate neurite outgrowth of cortical neurons. **(Journal ranking Neuroscience 114/256, Q2, IF 2.975, citation 34)**
  
8. **Goldshmit, Y.**, Galea, M.P., Wise, G., Bartlett , P.F. and Turnley, A.M. (2004). *J. Neurosci.* 24, 10064-10073. Axonal regeneration and lack of astrocytic gliosis in EphA4-deficient mice. **(Journal ranking Neuroscience 26/256, Q1, IF 5.92 , citation 202)**
  
9. Tal-Or P, Erlich S, Prat-Shliom N, **Goldshmit Y**, Ben-Baruch G, Shaharabani E, Kloog Y, Pinkas-Kramarski R. (2006). *J Cell Biochem.* 98(6):1482-94. Ligand-independent regulation of ErbB4 receptor phosphorylation by activated Ras. **(Journal ranking Biochemistry and Molecular Biology 101/289, Q2, IF 3.446 , citation 5)**
  
10. **Goldshmit, Y.**, Galea, M.P., Wise, G., Bartlett , P.F. and Turnley, A.M. (2006). *J Comp. Neurol.* 497(6):864-75. EphA4 regulates central nervous system vascular formation. **(Journal ranking Neuroscience 91/256, Q2, IF 3.331, citation 26)**
  
11. **Goldshmit Y** , Lythgo N, Galea MP, Turnley AM (2008) *J Neurotrauma.* 25(5):449-465. Treadmill training after spinal cord emisection in mice promotes axonal sprouting and synapse formation and improves motor recovery. **(Journal ranking Neuroscience 58/256, Q1, IF 4.19, citation 26)**
  
12. McLenachan S, **Goldshmit Y**, Fowler KJ, Voullaire L, Holloway TP, Turnley AM, Ioannou PA, Sarsero JP. (2008). *Transgenic Research.* 17(6):1103-16. Transgenic mice expressing the Peripherin-EGFP genomic reporter display intrinsic peripheral nervous system fluorescence. **(Journal ranking Biochemical research methods 46/77, Q3, IF 2.054, citation 4)**
  
13. **Goldshmit Y**, Galley S, Foo D, Sernagor E, Bourne JA.(2009). *Neuroscience.* 2010 166(3):886-98. Anatomical changes in the primary visual cortex of the congenitally blind *Crx*<sup>-/-</sup> mouse. **(Journal ranking Neuroscience 95/256, Q2, IF 3.23 , citation 6)**
  
14. **Goldshmit Y**, Munro K, Leong SY, Pébay A, Turnley AM. (2010). *Cell Tissue Res.* 341(1):23-32. LPA receptor expression in the central nervous system in health and following injury. **(Journal ranking Cell biology 95/256, Q3, IF 2.948, citation 17)**
  
15. **Goldshmit Y**, Bourne J. (2010). *J Neurotrauma.* 27(7):1321-32. Upregulation of EphA4 on astrocytes potentially mediates astrocytic gliosis after cortical lesion in the marmoset monkey. **(Journal ranking Neuroscience 58/256, Q1, IF 5.19, citation 25 )**
  
16. Warner CE, **Goldshmit Y**, Bourne JA. (2010). *Front Neuroanat.* 12;4:8. Retinal afferents synapse with relay cells targeting the middle temporal area in the pulvinar and lateral geniculate nuclei. **(Journal ranking Anatomy and morphology 2/22, Q1, IF 3.26 , citation 34)**



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17. Eyal Mor, Yuval Cabilly, **Yona Goldshmit**, Harel Zalts, Shira Modai, Liat Edry, Orna Elroy-Stein and Noam Shomron. (2011). *Nucleic Acids Research*, 39(19):3710-23. Species-specific microRNA roles elucidated following astrocyte activation. **(Journal ranking Biochemistry and molecular biology 18/289, Q1, IF 9.02 , citation 36)**
  
18. **Goldshmit Y**, Spanevello MD, Tajouri S, Li L, Rogers F, Pearse M, Galea M, Bartlett PF, Boyd AW, Turnley AM. (2011). *PLoS One*. 6(9):e24636. EphA4 blockers promote axonal regeneration and functional recovery following spinal cord injury in mice. **(Journal ranking Multidisciplinary science 11/63, Q1, IF 3.057 , citation 50)**
  
19. Frugier T, Conquest A, McLean C, Currie P, Moses D, **Goldshmit Y**. (2012). *Neuropathol Exp Neurol*. 71(3):242-50. Expression and Activation of EphA4 in the Human Brain After Traumatic Injury. **(Journal ranking Clinical neurology 49/193, Q1, IF 3.432 , citation 14)**
  
20. **Goldshmit Y**, Sztal T, Hall T, Jusuf PR, Nguyen-Chi M, Currie P. (2012). *Journal of Neuroscience*. 32(22):7477-92. Fgf-dependent glial cell bridges facilitate spinal cord regeneration in zebrafish. **(Journal ranking Neuroscience 26/256, Q1), IF 5.92 , citation 82)**
  
21. **Goldshmit Y**, Matteo R, Sztal T, Ellett F, Frisca F, Moreno K, Crombie D, Lieschke GJ, Currie PD, Sabbadini RA, Pébay A. (2012). *Am J Pathol*. 181(3):978-92. Blockage of lysophosphatidic acid signaling improves spinal cord injury outcomes. **(Journal ranking Pathology 11/79, Q1, IF 4.206 , citation 26)**
  
22. Frisca Frisca, Duncan Crombie, Mirella Dottori, **Yona Goldshmit** and Alice Pébay (2013). *Journal of Lipid*. 54(5):1192-206.. The Rho/ROCK pathway is essential to the modulation of maintenance, differentiation and morphological rearrangements of human neural stem/progenitor cells induced by lysophosphatidic acid. **(Journal ranking Biochemistry and molecular biology 67/289, Q1, IF 4.368, citation 15)**
  
23. **Yona Goldshmit**, Frisca Frisca, Alexander R Pinto, Alice Pébay, Jean-Kitty K.Y Tang, Jan Kaslin, Ashley L Siegel and Peter D. Currie (2014), *Brain and Behavior*. 4(2):187-200. Fgf2 improves functional recovery- decreasing gliosis and increasing radial glia and neural progenitor cells after spinal cord injury. **(Journal ranking Neuroscience 167/256, Q3, IF 2.128, citation 21)**
  
24. **Yona Goldshmit**, Jihane Homman-Ludiye and James Bourne (2014). *EJN*. 39(9):1419-28. The guidance molecule EphA4 is expressed by neurons and glia throughout the lifespan in the primate. **(Journal ranking Neuroscience 114/256, Q2, IF 2.975, citation 5)**
  
26. **Goldshmit Y**, Trangle SS, Kloog Y, Pinkas-Kramarski R. (2014). *Oncotarget*. 30;5(18):8602-13. Interfering with the interaction between ErbB1, nucleolin and Ras as a potential treatment for glioblastoma. **(Journal ranking Oncology 36/213, Q2, IF 5.008, citation 11)**
  
27. **Yona Goldshmit**, Frisca Frisca, Jan Kaslin, Alexander R Pinto, Jean-Kitty K.Y Tang, Alice Pébay, Ronit Pinkas-Kramarski and Peter D. Currie. (2015). *Neuroscience*. 287:104-12. Decreased anti-regenerative effects after spinal cord injury in *spry4*<sup>-/-</sup> mice. **(Journal**

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**ranking Neuroscience 95/256, Q2, IF 3.23 , citation 1)**

28. **Goldshmit Y**, Kanner S, Zacs M, Frisca F, Pinto AR, Currie PD, Pinkas-Kramarski R. (2015) *Mol Cell Neurosci* 68:82-91. Rapamycin increases neuronal survival, reduces inflammation and astrocyte proliferation after spinal cord injury. **(Journal ranking Neuroscience 78/256, Q2, IF 3.597 , citation 11)**

29. **Yona Goldshmit**, Sari Schokoroy Trangle, Fabian Afergan, Tal Iram and Ronit Pinkas-Kramarski. (2016) *J Neurochemistry*, 138(6):845-58. Nucleolin inhibitor GroA triggers reduction in epidermal growth factor receptor activation: Pharmacological implication for glial scarring after spinal cord injury. **(Journal ranking Neuroscience 71/256, Q2, IF 3.842, citation 0)**

30. Frisca F, Colquhoun D, **Goldshmit Y**, Änkö ML, Pébay A, Kaslin J. (2016) *Scientific Reports*. doi: 10.1038/srep37678. Role of ectonucleotide pyrophosphatase/phosphodiesterase 2 in the midline axis formation of zebrafish. **(Journal ranking Multidisciplinary science 7/63, Q1, IF 5.228 , citation 0)**

31. **Goldshmit Y**, Jona G, Schmukler E, Solomon S, Pinkas-Kramarski R, Ruban A. (2018) *J Neurotrauma*. doi: 10.1089/neu.2017.5524. Blood Glutamate Scavenger as a novel neuroprotective treatment in spinal cord injury. **(Journal ranking Neuroscience 58/256, Q1, IF 5.19, citation 0 )**

31. 32. Wolfson E, Solomon S, Schmukler E, **Goldshmit Y**, Pinkas-Kramarski R. (2018) *Cell Death Dis.* 19;9(2):47. doi: 10.1038/s41419-017-0067-7. Nucleolin and ErbB2 inhibition reduces tumorigenicity of ErbB2-positive breast cancer. **(Journal ranking cancer research, Q1, IF 5.6)**

33. **Goldshmit Y**, Tang JKKY, Siegel AL, Nguyen PD, Kaslin J, Currie PD, Jusuf PR. (2018) *Neural Dev.* Nov 17;13(1):24. doi: 10.1186/s13064-018-0122-9. Different Fgfs have distinct roles in regulating neurogenesis after spinal cord injury in zebrafish. **(Journal ranking Neuroscience Q1, IF 2.13)**

34. **Yona Goldshmit**, Evgeni Banyas, Nicole Bens, Alex Yakovchuk, and Angela Ruban. (2020) *J neurosurgery: spine*. Accepted 16 April 2020. Blood Glutamate Scavenger decreases excitotoxicity and combined with exercises reduces axonal degeneration, and promotes functional recovery in mice with spinal cord injury. **(Journal ranking Neurosurgery Q1, IF 2.998)**

35. Tsivion-Visbord H, Perets N, Sofer T, Bikovski L, **Goldshmit Y**, Ruban A, Offen D *Transl Psychiatry.* 2020 Sep 1;10(1):305. Mesenchymal stem cells derived extracellular vesicles improve behavioral and biochemical deficits in a phencyclidine model of schizophrenia. **(Journal ranking Q1, IF 5.95)**

36. Schmukler E, Solomon S, Simonovitch S, **Goldshmit Y**, Wolfson E, Michaelson DM, Pinkas-Kramarski R. *Cell Death Dis.* 2020 Jul 24;11(7):578. Altered mitochondrial dynamics and function in APOE4-expressing astrocytes. **(Journal ranking cancer research, Q1, IF 5.6)**

37. **Goldshmit Yona** Rita Perelroizen, Alex Yakovchuk, Evgeni Banyas, Lior Mayo, Sari David, Amit Benbenishty, Pablo Blinder , Moshe Shalom and Angela Ruban *Scientific Reports.* volume 11, Article number: 14644 (2021) Blood glutamate scavengers increase pro-apoptotic signaling and reduce metastatic

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melanoma growth in-vivo. **(Journal ranking Multidisciplinary science 7/63, Q1, IF 5.228)**

### **B. 3 Review Articles**

1. **Goldshmit Y.**, McLenachan, S. and Turnley, A.M. (2006). Role of Eph receptors and ephrins in the normal and damaged adult CNS. *Brain Res Rev.* 52(2):327-45. **(Neuroscience IF 5.930 , citation 100, 29/252, Q1)**
2. Frisca F, Sabbadini RA, **Goldshmit Y**, and Pe'bay A. (2012). Biological effects of lysophosphatidic acid in the nervous system. *International Review of Cell and Molecular Biology.* Vol 296 **(Cell biology IF 3.752 , citation 10, 75/187, Q2)**
3. Sari Schokoroy Trangle, **Yona Goldshmit**, Yoel Kloog, Ronit Pinkas-Kramarski. (2015). *Cancer cell & microenvironment.* On line November 25. doi: 10.14800/ccm.420. Breaking the malignant triangle in glioblastoma - ErbB1/nucleolin/Ras. **(not defined)**

### **C. Chapters in Books**

1. Ophelia Erlich, **Yona Goldshmit** and Peter Currie (2017), Regenerative Engineering and Development Biology: Principles and Applications. Edited by David M. Gardiner. CRC Press Taylor and Francis Group. Chapter 10: Environmental Factors contribute to skeletal muscle and spinal cord regeneration.