2014 Anatomy & Cell Biology Publications, Conferences, and Book chapters

Table of Contents

Autexier, Chantal 2

Blaschuk, Orest 2

Daniels, Eugene 2

David, Samuel 2

Davis, Elaine 3

Kennedy, Timothy E..... 4

Lamarche, Nathalie..... 4

Noel, Geoffroy 5

Mandato, Craig..... 5

Miller, Sandra..... 5

Morales, Carlos..... 5

McKee, Mark D..... 5

McPherson, Peter..... 6

Presley, John..... 7

Reinhardt, Dieter..... 7

Ribeiro-da-Silva, Alfredo..... 8

Rouiller, Isabelle..... 8

Sossin, Wayne..... 9

Stifani, Stefano..... 9

Walker, Dominique..... 9

Vali, Hojatolah..... 10

Autexier, Chantale

Zhu, S., Rousseau, P.*, Lauzon,C.,* Gandin, V., Topisirovic, I. and **Autexier, C.** Inactive C-terminal Telomerase Reverse Transcriptase Insertion Splicing Variants are Dominant-Negative Inhibitors of Telomerase Biochimie Jun;101:93-103. doi: 10.1016/j.biochi.2013.12.023, 2014 Epub 2014 Jan 9.

Brault, M.E., Ohayon, S., Kwan, R., Bergman, H., Eisenberg, M.J., Boivin, J.F., Morin, J.F., Langlois, Y., Boivin, J.F., **Autexier, C*.** and Afilalo, J. Telomere Length and the Clinical Phenotype of Frailty in Older Adults Undergoing Cardiac Surgery. Journal of American Geriatrics Society Nov;62(11):2205-7. doi: 10.1111/jgs.13076. 2014

Presentations

Mancini, J., Fakhoury, J., Castor, K., Sleiman, H.F. and **Autexier, C.** Selective shortening of telomeres in cancer cells by a platinum (II) phenanthroimidazole G-quadruplex ligand. The 2nd Canadian Symposium on Telomeres and Genome Integrity. Manoir du Lac Delage, Québec City, May 28-31, 2014.

Chu, T.W., D'Souza, Y. and **Autexier, C.** Revealing the role of the human telomerase 'Insertion in Fingers Domain' at telomeres. The 2nd Canadian Symposium on Telomeres and Genome Integrity. Manoir du Lac Delage, Québec City, May 28-31, 2014.

Autexier, C. Age-associated degeneration and disease: Telomerase mechanisms and therapies. Skin Research Group. First Annual Symposium. McGill University. June 20, 2014.

Blaschuk, Orest

Blaschuk, *D.W.* 2015. N-cadherin Antagonists as Oncology Therapeutics. Phil. Trans. R. Soc. B 3?O:20140039. Epub 2014 Dec 22. http://dx.doLorg/10.l098/rstb.2014.0039

Daniels, Eugene

Odobescu A, Moubayed SP, Bou-Merhi J, Harris P, **Daniels E**, Danino MA. A new microsurgical research model using Thiel embalmed arteries and comparison of two suture techniques. Journal of Plastic, Reconstructive and Aesthetic Surgery 2014. 67 (3): 389-95

David, Samuel

*Greenhalgh, AD and David, S. Differences in the phagocytic response of microglia and peripheral macrophages after spinal cord injury and its effects on cell death. Journal of Neuroscience 2014 Apr 30;34(18):6316-22

*Kroner, A., *Greenhalgh, AD., *Zarruk, JG., Passos dos Santos, R., Gaestel, M. and David, S. TNF-α and increased intracellular iron alter macrophage polarization to a detrimental pro-inflammatory M1 phenotype in the injured spinal cord. Neuron 2014 Sep 3;83(5):1098-116

Gresle, M., Schulz, K., Jonas, A., Perreau, V., Cipriani, T., Baxter, A., Miranda-Hernandez, S., Field, J., Jokubiaits, V., Cherny, R., Volitakis, I., David, S., Kilpatrick, T. and Butzkueven,H Ceruloplasmin gene

deficient mice with experimental autoimmune encephalomyelitis show attenuated early disease evolution. Journal of Neuroscience Research 2014 Jun; 92(6):732-42

David, S. and Popovich, P.G . Microglial responses to spinal cord and brain trauma. Peer-reviewed chapter. In: Microglia in health and disease Eds. Marie-Ève Tremblay and Amanda Sierra, Springer, New York 2014

David, S. and *Kroner, A. Inflammation and secondary damage after spinal cord injury. Peer-reviewed chapter In: Neural Regeneration. Editors: Kwok-Fai So and Xiao-Ming Xu, Science Publishing House Shanghai Branch

Patents

Title: Treatment of neural diseases or conditions
Purpose: To treat acute spinal cord injury, or neurodegenerative disease, preferably amyotrophic lateral sclerosis. Active compound - Fenretinide (a semi-synthetic analogue of retinoic acid); Danuta Radzioch, Samuel David, Rubèn López-Vales, Thomas Skinnner. Patent in United States No 8,642,658, Issued February 4, 2014

Davis, Elaine

Khavandgar, Z.*, Roman, H.*, J. Li, S. Lee, H. Vali, J. Brinckmann, **E.C. Davis** and M. Murshed (2014) Elastin haploinsufficiency impedes the progression of arterial calcification in MGP-deficient mice. *J. Bone Mineral Res.* 29:327-337.

Urban Z. and **E.C. Davis** (2014) Cutis laxa: Intersection of elastic fiber biogenesis, TGF□□signaling, the secretory pathway and metabolism. *Matrix Biol.* 33:16-22.

Habibzadeh, S., L. Li, S. Omanovic, D. Shum-Tim and **E.C. Davis** (2014) Biocompatibility of Ir/Tioxide coatings: Interaction with platelet, endothelial and smooth muscle cells. *Appl. Surf. Sci.* 301:530-538.

Habibzadeh, S., L. Li, D. Shum-Tim, **E.C. Davis** and S. Omanovic (2014) Electrochemical polishing as a 316L stainless steel surface treatment method: Towards the improvement of biocompatibility. *Corr. Sci.* 87:89-100.

Dabovic, B., I.B. Robertson, L. Zilberberg, M. Vassallo, **E.C. Davis** and D.B. Rifkin (2014) Function of latent TGF□□binding protein 4 and fibulin 5 in elastogenesis and lung development. *J. Cell. Physiol.* 230:226-236.

Mofarrahi, M., J.M. McClung, C.D. Kontos, **E.C. Davis**, B. Tappuni, N. Moroz, A.E. Pickett, L. Huck, S. Harel, G. Daniolou and S.N.A. Hussain. Angiopoietin-1 enhances skeletal muscle regeneration in mice. *Am. J. Physiol.* In Press.

Conferences:

Invited Speaker - The National Registry of Genetically Triggered Thoracic Aortic Aneurysms and

Cardiovascular Conditions invited me to speak at the 3rd GenTAC Thoracic Aortic Disease Summit.
Structural alterations in the aorta in mouse models of aortic disease
July 9-10, 2014 at the Lord Baltimore Hotel in Baltimore, MD

Kennedy, Timothy

Ricoult SG, Thompson-Steckel G, Correia JP, Kennedy TE and Juncker D. Tuning Cell-Surface Affinity to Direct Cell Specific Responses to Patterned Proteins. Biomaterials Jan 2014 35(2):727-36

Thompson-Steckel G, Kennedy TE. Maintaining and Modifying Connections: Roles for Axon Guidance Cues in the Mature Nervous System. Neuropsychopharmacology Jan 2014 39(1):246-247.

Leong SY, Rao VTS, Bin JM, Gris P, Sangaralingam M, Kennedy TE, Antel JP Heterogeneity of oligodendrocyte progenitor cells in adult human brain. Annals of Clinical and Translational Neurology, April 2014 1(4): 272-283.

Cui QL, Fang J, Kennedy TE, Almazan G, Antel JP. Role of p38MAPK in S1P receptor-mediated differentiation of human oligodendrocyte progenitors. Glia, Aug 2014 62: 1361–1375

Brunet I, Gordon E, Han J, Cristofaro B, Broqueres-You D, Liu C, Bouvrée K, Zhang J, Del Toro R, Mathivet T, Larrivée B, Jagu J, Pibouin-Fragner L, Pardanaud L, Machado MJ, Kennedy TE, Zhuang Z, Simons M, Levy BI, Tessier-Lavigne M, Grenz A, Eltzschig H, Eichmann A. Netrin-1 controls sympathetic arterial innervation. J. Clinical Investigation, July 2014 124(7):3230-40.

Bull SJ, Bin JM, Beaumont E, Boutet A, Krimpenfort P, Sadikot AF, Kennedy TE. Progressive Disorganization of Paranodal Junctions and Compact Myelin Due to Loss of DCC Expression by Oligodendrocytes. Journal of Neuroscience, July 2014 34(29):9768-78.

Tepavčević, V, Kerninon C, Stéphane Aigrot M, Meppiel E, Mozafari S, Arnould-Laurent R, Ravassard P, Kennedy TE, Nait-Oumesmar B, Lubetzki C. Early netrin-1 expression impairs central nervous system remyelination. Annals of Neurology, Aug 2014 76(2):252-268.

Ongo G, Ricoult SG, Kennedy TE, Juncker D. Ordered, Random, Monotonic, and Non-monotonic Digital Nanodot Gradients. PLoS One, Sept 2014 9(9):e106541.

Ricoult SG, Sanati Nezhad A, Knapp-Mohammady M, Kennedy TE, Juncker D. Humidified Microcontact Printing of Proteins: Universal Patterning of Proteins on Both Low and High Energy Surfaces. Langmuir, 30(40):12002-10.

Lamarche, Nathalie

Duquette, PM. and Lamarche-Vane, N. (2014) Rho GTPases in embryonic development.
Small GTPases 5, 1---9 (2014)

Noel, Geoffroy

Why More Anatomy Departments Should Embrace Near Peer Teaching with Interprofessional Demonstrators **Austin J Anat. 2014; 1(5) 1024**

Mandato, Craig

Human ribosomal protein L9 is a Bax suppressor that promotes cell survival in yeast.
Eid R, Sheibani S, Gharib N, Lapointe JF, Horowitz A, Vali H, Mandato CA, Greenwood MT.
FEMS Yeast Res. 2014 May; 14(3):495-507. doi: 10.1111/1567-1364.12121.

Miller, Sandra

Hu, Di and Miller, Sandra C. (2014). Evidence of a lineage shift between natural killer (NK) cells and T lymphocytes in the spleen and blood of neonatally thymectomized, young adult C3H mice. Curr. Pediatr. Res. 18(2): 43-47.

Morales, Carlos

Patel K., Strong A., Tohyama J., Jin X., **Morales C.R.,** Billheimer J, Millar J., Kruth H., Rader D.J. 2015 Macrophage sortilin promotes LDL uptake, foam cell formation, and atherosclerosis. Circulation (in press).

Presentations

Alteraciones de proteínas lisosomales en el desarrollo de enfermedades metabólicas. Un enfoque histológico y celular. XXXVII Congreso Nacional de Histología y 1er Congreso Iberoamericano de Histología, Cuernavaca, México (2014).

McKee, Mark

Yuan Q, Jiang Y, Zhao X, Sato T, Densmore M, Schüler C, Erben RG, McKee MD and Lanske B. J. Bone and Mineral Research 29:693-704 (2014)

Salmon B, Bardet C, Coyac BR, Baroukh B, Naji J, Rowe PS, Opsahl Vital S, Linglart A, McKee MD and Chaussain C. Connective Tissue Research, 55:79-82 (2014)

Nelea V, Chien YC, Paquette J and McKee MD. Crystal Growth & Design, 14:979-987 (2014)

Hu J, Hu Y, Lu Y, Smith CE, Lertlam R, Wright JT, Suggs C, McKee MD, Beniash E, Kabir ME and Simmer JP. PLOS ONE, e89303 (2014)

Lin S, Zhang Q, Cao Z, Lu Y, Zhang H, Yan K, Liu Y, McKee MD, Qin C, Chen Z and Feng JQ. J. Biol. Chem 289:21533-43 (2014)

Conferences

Labex Matisse (Materials, Interfaces, Surfaces and Environment) of the Consortium of Sorbonne Universities, and the CNRS, France. Short Course on Biomineralization. Protein regulation of normal and pathologic mineralization. Invited Speaker. Cordelier Institute, Paris, France. December.

Universidade Estadual Paulista (UNESP) − 1st Brasilian Workshop on Bone Biology. Regulation of normal bone and tooth mineralization, and what goes wrong in hypophosphatasia and X-linked hypophosphatemia, and Interfaces in mineralized tissues: Implications for bone wound healing and osseointegration of implants. Keynote speaker. Sao Jose dos Campos, Brasil. April.

Gordon Research Conference - Bones and Teeth. Extracellular matrix phosphoproteins and enzymes regulating mineralization. Invited Speaker. Galveston, TX, USA. January

Department of Bioengineering, Imperial College London − Bioengineering Seminar Series. *Organic-inorganic interfaces in mineralized tissue biology, implant osseointegration and bone wound healing*. Seminar Speaker. London, UK. December.

McPherson, Peter

Vilariño-Güell, C., Rajput, A., Milnerwood, A.J., Shah, B., Szu-Tu, C., Trinh, J., Yu, I., Encarnacion, M.,Munsie, L.N., Tapia, L., Gustavsson, E.K., Chou, P., Evans, D.M., Pishotta, F.T., Volta, M., Beccano-Kelly, D., Thompson, C., Lin, M.K., Guenther, B.L., Wasserman, W.W., Bernard, V., Appel-Cresswell, S., Stoessl, A.J., Robinson, C.A., Dickson, D.W., Ross, O.A., Wszolek, Z.K., Aasly, J.O., Wu, R.M., Hentati, F., Gibson, R.A., McPherson, P.S., Girard, M., Rajput, M., Rajput, A.H., and Farrer, M.J. (2014) DNAJC13 mutations in Parkinson
Disease. *Hum. Mol. Genet*. 23: 1794-1801.

Hamlin, J.N.R., Schroeder, L., Fotouhi, M., Dokainish, H., Ioannou, M.S., Girard, M., Melançon, P., and McPherson, P.S. (2014) Scyl1 scaffolds class II Arfs to selective subcomplexes of coatomer through the □-COP appendage domain. *J. Cell Sci*. 127: 1454-1463 **(Highlighted in the "In This Issue" feature of the *Journal of Cell Science*).**

Wu, Y., O'Toole, E.T., Girard, M., Ritter, B., Messa, M., Liu, X., McPherson, P.S., Ferguson, S.M. and De Camilli, P. (2014) A dynamin 1-, dynamin 3- and clathrin-independent pathway of synaptic vesicle recycling mediated by bulk endocytosis. *Elife* e01621. doi: 10.7554.

Larivière, R., Gaudet, R., Gentil, B.J., Girard, M., Conte, T., Minotti, S., Leclerc-Desaulniers, K., Shoubridge, E.A., Gehring, K., McPherson, P.S., McKinney, R.A., Durham, H.D. and Brais, B. (2014) *Sacs* knockout mice present pathophysiological defects underlying autosomal recessive spastic ataxia of Charlevoix- Saguenay. *Hum Mol. Gen*. epub.

Conferences

Invited Speaker and conference co-organizer, 10th Annual Bellairs Research Workshop: Molecular Cell Biology and Proteomics. Bellairs Research Institute, Holetown, Barbados, January 18th – 25th

Invited Plenary Lecturer, National Ataxia Foundation's 5th International Ataxia Investigators Meeting, AIM 2014: Advancing Toward Therapeutics, Las Vegas, Nevada, March 18 – 21

Invited Speaker, 4th Annual EUROSPIN Meeting, Goslar, Germany, May 19-21.

Invited Departmental Seminar, Institut Jacques Monod, Paris, France, May 23,

Invited Departmental Seminar, Brain Research Institute, University of British Columbia, Vancouver, BC, October 10.

Invited Mini Symposium presentation, "The exchange factor DENND2B activates Rab13 at the leading edge of migrating cells driving cancer cell metastasis", American Society for Cell Biology, 54th Annual Meeting, Philadelphia, PA, Dec 6-10

Presley, John

Telma Dejgaord, John F. PresleY, New automated single-cell technique for segmentation and quantitation of lipid droplets. Journal of Histochemistry and Cytochemistry, December 2014 62{12):889-901

Reinhardt, Dieter

Hubmacher D, Bergeron E, Fagotto-Kaufmann C, Sakai LY, Reinhardt DP. Early fibrillin-1 assembly monitored through a modifiable recombinant cell approach. Biomacromolecules 2014, Vol 15: 1456-1468

Sabatier L, Djokic J, Hubmacher D, Dzafik D, Nelea V, Reinhardt DP Heparin/heparan sulfate controls fibrillin-1, -2 and -3 self-interactions in microfibril assembly FEBS Letters 2014, Vol 588 : 2890-2897

Reinhardt DP Microfibril-associated disorders: fibrillinopathies Journal of Glaucoma 2014 : Vol 23 : S34-S35

Murphy EC, Mörgelin M, Reinhardt DP, Björck L, Frick I-M Finegoldia magna uses its cell surface and extracellular proteins, FAF and SufA, to colonise and pass into deeper fractions of human skin Molecular Microbiology 2014 : Vol 94 : 403-417

Hubmacher D, Reinhardt DP, Plesec T, Schenke-Layland K, Apte Human eye development is characterized by coordinated expression of fibrillin isoforms Investigative Ophthalmology & Visual Science 2014 : Vol 55 : 7934-7944

Muiznieks LD, Cirulis JT, van der Horst A, Reinhardt DP, Wuite GJL, Pomès R, Keeley FW Modulated growth, stability and interactions of liquid-like coacervate assemblies of elastin
Matrix Biology 2014 : Vol 36 : 39-50

Marek I, Volkert G, Hilgers KF, Bieritz B, Rascher W, Reinhardt DP, Hartner A Cell Adhesion & Migration 2014 : Vol 8 : 389

Conferences

Annual Meeting of the German Society for Matrix Biology (DGMB), Regensburg, Germany (March 20-22, 2014). "*The microfibril/elastic fiber system - biogenesis and disease relevance*". (Invited Plenary Lecture)

Canadian Connective Tissue Conference 2014, London, Ontario, Canada (June 9-10, 2014). "*Matrix components and mechanisms required for cardiovascular health*". (Invited Plenary Lecture)

Skin Research Group Symposium 2014, Montreal, QC, Canada (June 19, 2014). "*Formation and function of the microfibril/elastic fiber system, a prerequisite for dermal tissue engineering*". (Invited Plenary Lecture)

21st Annual International Think Tank - The Glaucoma Foundation, New York, USA (September 19-20, 2014). "*Consequences of homocysteine on extracellular matrix proteins*". (Invited Plenary Lecture)

9th International Research Symposium on Marfan Syndrome and Related Disorders, Paris, France (September 25-27, 2014). "*Critical components in microfibril biogenesis and function*". (Invited Plenary Lecture)

Ribeiro-da Silva, A

J. S. Joyal, S. Nim, T. Zhu, N. Sitaras, J. C. Rivera, Z. Shao, P. Sapieha, D. Hamel, M. Sanchez, K. Zaniolo, M. St-Louis, J. Ouellette, M. Montoya-Zavala, A. Zabeida, E. Picard, P. Hardy, V. Bhosle, D. R. Varma, F. Gobeil, Jr., C. Beausejour, C. Boileau, W. Klein, M. Hollenberg, **A. Ribeiro-da-Silva**, G. Andelfinger, and S. Chemtob. Subcellular localization of coagulation factor II receptor-like 1 in neurons governs angiogenesis. *Nature Medicine* 20 (10):1165-1173, 2014.

L. E. Lorenzo, A. G. Godin, F. Wang, M. St-Louis, S. Carbonetto, P. W. Wiseman, **A. Ribeiro-da-Silva**, and Y. De Koninck. Gephyrin clusters are absent from small diameter primary afferent terminals despite the presence of GABAA receptors. *Journal of Neuroscience* 34 (24):8300-8317, 2014.

L. E. Lorenzo, C. Magnussen, A. L. Bailey, M. St.Louis, Y. De Koninck, and **A. Ribeiro-da-Silva**. Spatial and temporal pattern of changes in the number of GAD65-immunoreactive inhibitory terminals in the rat superficial dorsal horn following peripheral nerve injury. *Mol.Pain* 10:57, 2014.

Conferences

Faculty of Medicine of Oporto, Portugal, seminar series (23 July 2013). Invited speaker. “Changes in skin innervation in animal models of neuropathic pain”

Rouiller, Isabelle

Fibril formation pH controls intrafibrillar collagen biomineralization in vitro and in vivo.
Marelli B, Ghezzi CE, Zhang YL, Rouiller I, Barralet JE, Nazhat SN. *Biomaterials*. 2015 Jan; 37:252-9. doi: 10.1016/j.biomaterials.2014.10.008. Epub 2014 Oct 30.

Quaternary structure of WzzB and WzzE polysaccharide copolymerases. Kalynych S, Cherney M, Bostina M, Rouiller I, Cygler M. *Protein Sci*. 2015 Jan;24(1):58-69. doi: 10.1002/pro.2586. Epub 2014 Nov 4.

Coordinated rearrangements between cytoplasmic and periplasmic domains of the membrane protein complex ExbB-ExbD of Escherichia coli. Sverzhinsky A, Fabre L, Cottreau AL, Biot-Pelletier DM, Khalil S, Bostina M, Rouiller I, Coulton JW. *Structure*. 2014 May 6;22 (5):791-7. doi: 10.1016/j.str.2014.02.010. Epub 2014 Mar 20.

Sossin, Wayne

Farah CA, Naqib F, Weatherill D, Pak, C and **Sossin WS**. Synapse formation changes the rules for desensitization of PKC translocation in Aplysia European Journal of Neuroscience Nov. 17 doi: 10.1111/ejn.12794

Mcadam RL, Varga KT, Young FB, Blandford V, McPherson PS, Gong LW, **Sossin WS**. The juxtamembrane domain of synaptotagmin I interacts with dynamin I and regulates vesicle fission. Journal of Cell Science Journal of Cell Science

Stifani, Stefano

Itatani, Y., Sonoshita, M., Kakizaki, F., Okawa, K., Stifani, S., Itoh, H., Sakai, Y., and Taketo, M.M. Characterization of Aes Nuclear Foci in Colorectal Cancer Cells. *J Biochem* (Tokyo). Submitted.
De Salvo, M., Raimondi, L., Vella, S., Adesso, L., Ciarapica, R., Verginelli, F., Pannuti, A., Citti, A., Boldrini, R., Milano, G.M., Cacchione, A., Ferrari, A., Collini, P., Rosolen, A., Bisogno, G., Alaggio, R., Inserra, A., Locatelli, M., Stifani, S., Screpanti, I., Miele, L., Locatelli, F., and Rota, R. (2014) Hyper-activation of Notch3 amplifies the proliferative potential of rhabdomyosarcoma cells. *PLoS One* 9(5):e96238. doi: 10.1371/journal.pone.0096238.

Murthy, M., Bocking, S., Verginelli, F., and Stifani S. (2014) Transcription factor Runx1 inhibits proliferation and promotes developmental maturation in a selected population of inner olfactory nerve layer olfactory ensheathing cells. *Gene*. **540**(2):191-200. doi: 10.1016/j.gene.2014.02.038. Epub 2014 Feb 26.

Ciarapica, R., Carcarino, E., Adesso, L., De Salvo, M., Bracaglia, G., Leoncini, P.P., Dall'Agnese, A., Verginelli, F., Milano, G.M., Boldrini, R., Inserra, A., Stifani, S., Screpanti, I, Marquez, V.E., Valente, S., Mai, A., Puri, P.L., Locatelli, F., Palacios, D., Rota R. (2014) Pharmacological inhibition of EZH2 as a promising differentiation therapy in embryonal RMS. *BMC Cancer*. **14**(1):139. doi: 10.1186/1471-2407-14-139.

Walker, Dominique

Campbell-Yeo ML, Johnston CC, Joseph KS, Feeley N, Chambers CT, Barrington KJ, Walker CD. 2014 Co-bedding Between Preterm Twins Attenuates Stress Response Following Heel Lance: Results of a Randomized Trial. Clin J Pain. 2014 Jul;30(7):598-604.

Naef L, **Gjerde E**, Long H, Richard D, Walker CD 2014 Neonatal onset of leptin signaling in dopamine neurons of the ventral tegmental area in the rat. J Neuroendocrinol. 2014 Dec;26(12):835-43

Vali, Hojatollah

Krishnaswamy, K., Vali, H., Orsat, V. Value-addeding to grape waste: green synthesis of gold nanoparticles. Journal of Food Engineering 2014 (142)

Schumann, D., Hesse, R., Sears, S. K., Vali, H. Expansion behavior of octadecylammonium-exchanged low- to high-charge reference smectite-group minerals as revealed by high-resolution transmission electron microscopy on ultrathin sections. Clays and Clay Minerals 2014 (11)

Schumann, D., Sapers, H. M., Izawa, M., Applin, D., berg, B., Mann, P., Vali, H., Flemming, R.L., Cloutic, E.A., Whyte, L.G. A mineralogical characterization of biogenic calcium carbonates precipitated by heterotrophic bacteria isolated from cryophilic polar regions. Geobiology 2014 (12)

Hoseini, M., Bocher, P., Shahryari, A., Azari, F., Szpunar, S.A., Vali, H. On the importance of crystallographic texture in the biocompatibility of titanium based substrate. Journal of Biomedical Materials Research 2014 (102)

Masoudzadeh, N., Alidoust, L. Nima Samie, N.,Hajfarajollah, H., Sharafi, H., Modiri, S., Shahbani Zahiri, H., Vali, H., Akbari Noghabi, K. Distinctive protein expression patterns of the strain Brevundimonas sp. ZF12 isolated from the aqueous zone containing high levels of radiation to cadmium-induced stress. Journal of Biotechnology 2014 (186)

Karimi, B., Rostami, F.B., Khorasani, M., Elhamifar, D., Vali, H. Selective oxidation of alcohols with hydrogen peroxide catalyzed by tungstate ions (WO4=) supported on periodic mesoporous organosilica with imidazolium frameworks (PMO-IL). Tetrahedron 2014 (70)

Karimi, B., Farhangi, E., Vali, H., Vahdati, S. SBA-15-Functionalized 3-Oxo-ABNO as Recyclable Catalyst for Aerobic Oxidation of Alcohols under Metal-Free Conditions. ChemSUSChem 2014 (7)

Kazemi, SH., Karimi, B., Fashi, A., Behzadnia, H., Vali, H. High-performance supercapacitors based on an ionic liquid-derived nanofibrillated mesoporous carbon. Journal of Solid State Electrochemistry 2014 (18)

Ghadimi, E., Eimar, H.,; Song, J., Marelli, B., Ciobanu, O., Abdallah, M.N., Stahli, C., Nazhat, S.N., Vali, H., Tamimi, F. Regulated fracture in tooth enamel: A nanotechnological strategy from nature. Journal of Biomechanics 2014 (47)

3.141 Karimi, B., Behzadnia, H., Vali, H. Palladium on Ionic Liquid Derived Nanofibrillated Mesoporous Carbon: A Recyclable Catalyst for the Ullmann Homocoupling Reactions of Aryl Halides in Water. ChemCatChem 2014 (6)

Haddad, M., Vali, H., Paquette, J., Guiot, S.R. The Role of Carboxydothermus hydrogenoformans in the Conversion of Calcium Phosphate from Amorphous to Crystalline State. PLOS One 2014 (9)

Hosseini, S., Naderi-Manesh, H., Vali, H., Faghihi, S. Improved surface bioactivity of stainless steel substrates using osteocalcin mimetic peptide. Materials Chemistry and Physics 2014 (143)

Liang, B.Q., Wu, T.D., Sun, H.J., Vali, H., Guerquin-Kern, J.L., Wang, C.H ., Bosak, T. Cyanophycin Mediates the Accumulation and Storage of Fixed Carbon in Non-Heterocystous Filamentous Cyanobacteria from Coniform Mats. PLOS One 2014 (9)

Khavandgar, Z., Roman, H., Li, J.J., Lee, S. Vali, H., Brinckmann, J., Davis, E.C., Murshed, M. Elastin Haploinsufficiency Impedes the Progression of Arterial Calcification in MGP-Deficient Mice. Journal of Bone and Mineral Research 2014 (29)

Karimi, B., Mansouri, F., Vali, H. A highly water-dispersible/magnetically separable palladium catalyst based on a Fe3O4@SiO2 anchored TEG-imidazolium ionic liquid for the Suzuki-Miyaura coupling reaction in water. Green Chemistry 2014 (16)

Sheibani, S., Richard, V.R., Beach, A., Leonov, A., Feldman, R., Mattie, S., Khelghatybana, L., Piano, A Greenwood, M., Vali, H. Macromitophagy, neutral lipids synthesis, and peroxisomal fatty acid oxidation protect yeast from "liponecrosis", a previously unknown form of programmed cell death. Cell Cycle 2014 (13)

Eid, R., Sheibani, S., Gharib, N., Lapointe, J.F., Horowitz, A., Vali, H., Mandato, C.A., Greenwood, M.T. Human ribosomal protein L9 is a Bax suppressor that promotes cell survival in yeast. Journal of Biomechanics 2014 (14)

Rafiee, M., Karimi, B., Arshi, S ., Vali, H. Ethylenediamine-modified oriented MCM-41 at the electrode surface, cobalt adsorption ability and electrochemical performance. Dalton Transactions 2014 (43)

Karimi, B., Mobaraki, A., Mirzaei, H.M. Zareyee, D., Vali, H. Improving the Selectivity toward Three-Component Biginelli versus Hantzsch Reactions by Controlling the Catalyst Hydrophobic/ Hydrophilic Surface Balance. ChemCatChem 2014 (6)

Khavandgar, Z., Roman, H., Li, J.J ., Lee, S., Vali, H., Brinckmann, J., Davis, E.C., Murshed, M. Elastin haploinsufficiency impedes the progression of arterial calcification in MGP-deficient mice. Angiogenesis 2014 (17)

Horowitz, A., Lapointe, J.F., Eid, R., Sheibani, S., Gharib, N., Jones, N.K., Vali, H., Mandato, C.A., Greenwood, M.T. The human septin7 and the yeast CDC10 septin prevent Box and copper mediated cell death in yeast. Biochimica et Biophysica Acta - Molecular Cell Research 2014 (1833)

Monfared, A., Vali, H ., Faghihi, S. Biocorrosion and biocompatibility of Zr-Cu-Fe-Al bulk metallic glasses. Surface and Interface Analysis 2014 (45)

Heidari, M., Ebrahimian, T., Lemarie, C.A., Simon, D., Rivas, D., Vali, H., Mandato, C.A., & Lehoux, S. Canadian Journal of Cardiology 2014 (29)