

DR STEFANO SQUARZONI

PUBLISHED ARTICLES

- 92 Cenni V, Capanni C, Mattioli E, Schena E, Squarzoni S, Bacalini MG, Garagnani P, Salvioli S, Franceschi C, Lattanzi G. Lamin A involvement in ageing processes Ageing Research Reviews in press
- 91 Manuela Antoniel, Francesco Traina, Luciano Merlini, Davide Andrenacci, Domenico Tigani, Spartaco Santi, Patrizia Sabatelli *, Cesare Faldini, Stefano Squarzoni Tendon extracellular matrix remodeling and defective cell polarization in the presence of collagen VI mutations. Cells 2020 in press
- 90 Zaghini A, Sarli G, Barboni C, Sanapo M, Pellegrino V, Diana A, Linta N, Rambaldi J, D'Apice MR, Murdocca M, Baleani M, Baruffaldi F, Fognani R, Mecca R, Festa A, Papparella S, Paciello O, Prisco F, Capanni C, Loi M, Schena E, Lattanzi G, Squarzoni S. Long term breeding of the Lmna G609G progeric mouse: Characterization of homozygous and heterozygous models. Exp Gerontol. 2019 Nov 30:110784.
- 89 Francesca Gualandi, Elisabetta Sette, Fernanda Fortunato, Stefania Bigoni, Domenico De Grandis, Chiara Scotton, Rita Selvatici, Marcella Neri, Alex Incensi, Rocco Liguori, Markus Storbeck, Mert Karakaya, Valentina Simioni, Stefano Squarzoni, Vincent Timmerman, Brunhilde Wirth, Vincenzo Donadio, Valeria Tugnoli, Alessandra Ferlini. Report of a novel ATP7A mutation causing distal motor neuropathy Neuromuscular Disorders 2019 DOI:<https://doi.org/10.1016/j.nmd.2019.08.008>
- 88 Pellegrini C, Columbaro M, Schena E, Prencipe S, Andrenacci D, Iozzo P, Guzzardi MA, Capanni C, Mattioli E, Loi M, Araujo-Vilar D, Squarzoni S, Cinti S, Morselli P, Giorgetti A, Zanotti L, Gambineri A, Lattanzi G. Altered adipocyte differentiation and unbalanced autophagy in type 2 Familial Partial Lipodystrophy: an in vitro and in vivo study of adipose tissue browning. Exp Mol Med. 2019 Aug 2;51(8):89
- 87 Sardone et al Collagen VI-NG2 axis in human tendon fibroblasts under conditions mimicking injury response Matrix Biology 10.1016/j.matbio.2016.02.012
- 86 Loi M, Cenni V, Duchi S, Squarzoni S, Lopez-Otin C, Foisner R, Lattanzi G, Capanni C. Barrier-to-Autointegration Factor (BAF) involvement in prelamin A-related chromatin organization changes. Oncotarget. 2016 Mar 29;7(13):15662-77
- 85 Elisa Cesarini, Chiara Mozzetta, Fabrizia Marullo, Francesco Gregoretti, Annagiusi Gargiulo, Marta Columbaro, Alice Cortesi, Laura Antonelli, Simona Di Pelino, Stefano Squarzoni, Daniela Palacios, Alessio Zippo, Beatrice Bodega, Gennaro Oliva, and Chiara Lanzuolo. Lamin A/C sustains P_cG protein architecture, maintaining transcriptional repression at target genes J. Cell Biol. 2015; 211:533-551
- 84 Pellegrini C, Columbaro M, Capanni C, D'Apice MR, Cavallo C, Murdocca M, Lattanzi G, Squarzoni S. All-trans retinoic acid and rapamycin normalize Hutchinson Gilford progeria fibroblast phenotype. Oncotarget. 2015 Oct 6;6(30):29914-28

- 83 Evangelisti C, Bernasconi MP, D'Apice MR, Sbraccia P, Novelli G, Prencipe S, Lemma S, Baldini N, Avnet S, Squarzoni S, Martelli AM, Lattanzi G. Modulation of TGFbeta 2 levels by lamin A in U2-OS osteoblast-like cells: understanding the osteolytic process triggered by altered lamins. *Oncotarget* 2015 Apr 10;6(10):7424-37.
- 82 Camozzi D, Capanni C, Cenni V, Mattioli E, Columbaro M, Squarzoni S, Lattanzi G. Diverse lamin-dependent mechanisms interact to control chromatin dynamics: Focus on laminopathies. *Nucleus*. 2014 Sep 2;5(5)
- 81 Sardone F, Traina F, Tagliavini F, Pellegrini C, Merlini L, Squarzoni S, Santi S, Neri S, Faldini C, Maraldi N, Sabatelli P. Effect of mechanical strain on the collagen VI pericellular matrix in anterior cruciate ligament fibroblasts. *J Cell Physiol*. 2014 Jul;229(7):878-86.
- 80 Cenni V, Capanni C, Mattioli E, Columbaro M, Wehnert M, Ortolani M, Fini M, Novelli G, Bertacchini J, Maraldi NM, Marmiroli S, D'Apice MR, Prencipe S, Squarzoni S, Lattanzi G. Rapamycin treatment of Mandibuloacral Dysplasia cells rescues localization of chromatin-associated proteins and cell cycle dynamics. *Aging (Albany NY)*. 2014 Sep;6(9):755-70
- 79 Tagliavini F, Pellegrini C, Sardone F, Squarzoni S, Paulsson M, Wagener R, Gualandi F, Trabanelli C, Ferlini A, Merlini L, Santi S, Maraldi NM, Faldini C, Sabatelli P. Defective collagen VI α 6 chain expression in the skeletal muscle of patients with collagen VI-related myopathies. *Biochim Biophys Acta. (mol bas dis)* 2014 Jun 5;1842(9):1604-1612
- 78 Canonico B, Candiracci M, Citterio B, Curci R, Squarzoni S, Mazzoni A, Papa S, Piatti E. Honey flavonoids inhibit Candida albicans morphogenesis by affecting DNA behavior and mitochondrial function. *Future Microbiol*. 2014 Apr;9:445-56.
- 77 De Pasquale D, Stea S, Squarzoni S, Bordini B, Amabile M, Catalani S, Apostoli P, Toni A. Metal-on-metal hip prostheses: Correlation between debris in the synovial fluid and levels of cobalt and chromium ions in the bloodstream. *Int Orthop*. 2014 Mar;38(3):469-75.
- 76 De Pasquale D, Stea S, Beraudi A, Montesi M, Squarzoni S, Toni A. Ceramic Debris in Hip Prosthesis: Correlation Between Synovial Fluid and Joint Capsule. *J Arthroplasty*. 2013 May;28(5):838-41
- 75 Gualandi F, Manzati E, Sabatelli P, Passarelli C, Bovolenta M, Pellegrini C, Perrone D, Squarzoni S, Pegoraro E, Bonaldo P, Ferlini A. Antisense-induced messenger depletion corrects a Col6A2 dominant mutation in Ullrich myopathy. *Hum Gene Ther*. 2012 23(12):1313-8.
- 74 Capanni C, Squarzoni S, Cenni V, D'Apice MR, Gambineri A, Novelli G, Wehnert M, Pasquali R, Maraldi NM, Lattanzi G. Familial partial lipodystrophy, mandibuloacral dysplasia and restrictive dermopathy feature barrier-to-autointegration factor (BAF) nuclear redistribution. *Cell Cycle*. 2012 Aug 30;11(19)
- 73 Camozzi D, D'Apice MR, Schena E, Cenni V, Columbaro M, Capanni C, Maraldi NM, Squarzoni S, Ortolani M, Novelli G, Lattanzi G Altered chromatin organization and SUN2 localization in mandibuloacral dysplasia are rescued by drug treatment. *Histochem Cell Biol*. 2012 Jun 17 138(4):643-51

- 72 Cenni V, Capanni C, Columbaro M, Ortolani M, D'Apice MR, Novelli G, Fini M, Marmiroli S, Scarano E, Maraldi NM, Squarzoni S, Prencipe S, Lattanzi G. Autophagic degradation of farnesylated prelamin A as a therapeutic approach to lamin-linked progeria. *Eur J Histochem.* 2011 Oct 19;55(4):e36.
- 71 Stea S, Traina F, Beraudi A, Montesi M, Bordini B, Squarzoni S, Sudanese A, Toni A. Synovial fluid microanalysis allows early diagnosis of ceramic hip prosthesis damage. *Journal of Orthopaedic Research* 2012 Aug;30(8):1312-20
- 70 Sabatelli P, Gualandi F, Gara SK, Grumati P, Zamparelli A, Martoni E, Pellegrini C, Merlini L, Ferlini A, Bonaldo P, Maraldi NM, Paulsson M, Squarzoni S, Wagener R. Expression of collagen VI α 5 and α 6 chains in human muscle and in Duchenne muscular dystrophy-related muscle fibrosis. *Matrix Biol.* 2012 Apr;31(3):187-96.
- 69 Sabatelli P, Palma E, Angelin A, Squarzoni S, Urciuolo A, Pellegrini C, Tiepolo T, Bonaldo P, Gualandi F, Merlini L, Bernardi P, Maraldi NM. Critical evaluation of the use of cell cultures for inclusion in clinical trials of patients affected by collagen VI myopathies. *J Cell Physiol.* 2012 Jul;227(7):2927-35.
- 68 Gara SK, Grumati P, Squarzoni S, Sabatelli P, Urciuolo A, Bonaldo P, Paulsson M, Wagener R. Differential and restricted expression of novel collagen VI chains in mouse. *Matrix Biol.* 2011 May;30(4):248-57
- 67 Mattioli E, Columbaro M, Capanni C, Maraldi NM, Cenni V, Scotlandi K, Marino MT, Merlini L, Squarzoni S, Lattanzi G. Prelamin A-mediated recruitment of SUN1 to the nuclear envelope directs nuclear positioning in human muscle. *Cell Death Differ.* 2011 Aug;18(8):1305-15
- 66 Sabatelli P, Gara SK, Grumati P, Urciuolo A, Gualandi F, Curci R, Squarzoni S, Zamparelli A, Martoni E, Merlini L, Paulsson M, Bonaldo P, Wagener R. Expression of the Collagen VI α 5 and α 6 Chains in Normal Human Skin and in Skin of Patients with Collagen VI-Related Myopathies. *J Invest Dermatol.* 2011 Jan;131(1):99-107
- 65 Columbaro M, Mattioli E, Schena E, Capanni C, Cenni V, Levy N, Navarro CL, Del Coco R, Squarzoni S, Camozzi D, Hutchison CJ, Wehnert M, Lattanzi G. Prelamin A processing and functional effects in restrictive dermopathy. *Cell Cycle.* 2010 Dec 1;9(23):4766-4768.
- 64 Lucarelli E, Beretta R, Dozza B, Tazzari PL, O'Connell SM, Ricci F, Pierini M, Squarzoni S, Pagliaro PP, Oprita EI, and Donati D. A recently developed bifacial platelet-rich fibrin matrix. *Eur Cell Mater.* 2010 Jul 1;20:13-23.
- 63 Capanni C, Cenni V, Haraguchi T, Squarzoni S, Schüchner S, Ogris E, Novelli G, Maraldi NM, Lattanzi G. Lamin A precursor induces barrier-to-autointegration factor nuclear localization. *Cell Cycle* 2010; 9(13):2600-2610
- 62 Manferdini C, Guarino V, Zini N, Raucci MG, Ferrari A, Grassi F, Gabusi E, Squarzoni S, Facchini A, Ambrosio L, Lisignoli G. Mineralization behavior with mesenchymal stromal cells in a biomimetic hyaluronic acid-based scaffold. *Biomaterials.* 2010 May;31(14):3986-96.
- 61 Zhang RZ, Zou Y, Pan TC, Markova D, Fertala A, Hu Y, Squarzoni S, Reed UC, Marie SK, Bonnemann CG, Chu ML. Recessive COL6A2 C-globular missense mutations in Ullrich

- congenital muscular dystrophy: Role of the C2A splice variant. *J Biol Chem.* 2010 Mar 26;285(13):10005-15
- 60 Affatato S, Spinelli M, Squarzoni S, Traina F, Toni A. Mixing and matching in ceramic-on-metal hip arthroplasty: An in-vitro hip simulator study. *Journal of Biomechanics* 2009 42:2439–2446
- 59 Gualandi F, Urciuolo A, Martoni E, Sabatelli P, Squarzoni S, Bovolenta M, Messina S, Mercuri E, Franchella A, Ferlini A, Bonaldo P, Merlini L. Recessive Bethlem Miopathy. *Neurology* 2009 Dec 1;73(22):1883-91.
- 58 Capanni C, Del Coco R, Mattioli E, Camozzi D, Columbaro M, Schena E, Merlini L, Squarzoni S, Maraldi NM, Lattanzi G. Emerin-prelamin A interplay in human fibroblasts. *Biol Cell.* 2009 Sep;101(9):541-54.
- 57 Merlini L, Martoni E, Grumati P, Sabatelli P, Squarzoni S, Urciuolo A, Ferlini A, Gualandi F, Bonaldo P. Autosomal Recessive Myosclerosis Myopathy is a Collagen VI Disorder. *Neurology* 2008 Oct 14;71(16):1245-53.
- 56 Capanni C, Squarzoni S, Columbaro M, Mattioli E, Del Coco R, Camozzi D, Rocchi A, Scotlandi K, Maraldi NM, Foisner R, Lattanzi G. Prelamin A processing is involved in early steps of muscle cell differentiation. *Experimental Cell Research* 2008 314:3628–3637
- 55 Zini N, Avnet S, Ghisu S, Maraldi NM, Squarzoni S, Baldini N, Lattanzi G- Effects of prelamin A processing inhibitors on the differentiation and activity of human osteoclasts. *J Cell Biochem.* 2008 Sep 1;105(1):34-40
- 54 Mattioli E, Columbaro M, Capanni C, Santi S, Maraldi NM., D'Apice M.R, Novelli G, Riccio M, Squarzoni S, Foisner R, Lattanzi G. Drugs affecting prelamin A processing: effects on heterochromatin organization *Exp Cell Res.* 2008 Feb 1;314(3):453-62
- 53 Lattanzi G, Columbaro M, Mattioli E, Cenni V, Camozzi D, Wehnert M, Santi S, Riccio M, Del Coco R, Maraldi NM, Squarzoni S, Foisner R, Capanni C. Pre-Lamin A processing is linked to heterochromatin organization. *J Cell Biochem.* 2007 Dec 1;102(5):1149-59
- 52 Baleani M., C. Persson, L. Guandalini, E. Piazza, P. Erani, S. Squarzoni and M. Viceconti. The effect of gentamicin sulphate on the fracture properties of a manually mixed bone cement *Fatigue & Fracture of Engineering Materials and Structures* 2007 30(6): 479–488
- 51 Toni A, Traina F, Stea S, Sudanese A, Visentin M, Bordini B, Squarzoni S. Early diagnosis of ceramic liner fracture. Guidelines based on a twelve-year clinical experience. *J Bone Joint Surg Am.* 2006 Dec;88 Suppl 4:55-63
- 50 Stea S, Visentin M, Bordini B, Traina F, Squarzoni S, Toni A. A case report of fracture of ceramic head in total hip arthroplasty: Histological and biochemical features of perimplant tissues. *Int J Artif Organs.* 2006 29:800-8.
- 49 Maraldi NM, Lattanzi G, Capanni C, Columbaro M, Merlini L, Mattioli E, Sabatelli P, Squarzoni S, Manzoli FA Nuclear envelope proteins and chromatin arrangement: a pathogenic mechanism for laminopathies. *Eur J Histochem.* 2006 Jan-Mar;50(1):1-8.

- 48 Visentin M., S. Stea, M. Reggiani, C. Fagnano, S. Squarzoni, M. De Clerico, A. Toni Hylamer Polyethylene Determination of Crystallinity and Crystal Structure after in vivo wear J Biomater Appl. 2006 Oct;21(2):131-45
- 47 Squarzoni S, P Sabatelli, N Bergamin, P Guicheney, E Demir, L Merlini, G Lattanzi, A Ognibene, C Capanni, E Mattioli, M Columbaro, P Bonaldo, NM Maraldi. Ultrastructural defects of collagen VI filaments in an Ullrich syndrome patient with loss of the $\alpha 3(VI)$ N10-N7 domains. J Cell Physiol. 2006 Jan 206(1):160-166
- 46 Visentin M, Stea S, Squarzoni S, Reggiani M, Fagnano C, Antonietti B, Toni A. Isolation and characterization of wear debris generated in patients wearing polyethylene Hylamer inserts, gamma irradiated in air. J Biomater Appl. 2005 Oct;20(2):103-21.
- 45 Columbaro M, C Capanni, , E Mattioli, G Novelli, VK Parnaik , S Squarzoni, NM Maraldi, G Lattanzi. Rescue of heterochromatin organization in Hutchinson-Gilford progeria by drug treatment Cell Mol Life Sci. 2005 Nov;62(22):2669-78
- 44 Giusti B, Lucarini L, Pietroni V, Lucioli S, Bandinelli B, Sabatelli P, Squarzoni S, Petrini S, Gartioux C, Talim B, Roelens F, Merlini L, Topaloglu H, Bertini E, Guicheney P, Pepe G. Dominant and Recessive COL6A1 Mutations in Ullrich Scleroatonic Muscular Dystrophy. Ann Neurol 2005;58:400–410
- 43 Squarzoni S, Sabatelli P, Capanni C, Lattanzi G, Rutigliano C, Columbaro M, Mattioli E, Rocca M, Maraldi NM. Emerin increase in regenerating muscle fibers Eur J Histochem. 2005 Oct-Dec;49(4):355-362
- 42 Capanni C, E Mattioli, M Columbaro, E Lucarelli, VK. Parnaik, G Novelli, M Wehnert, V Cenni, NM. Maraldi, S Squarzoni, G Lattanzi. Altered pre-lamin A processing is a common mechanism leading to lipodystrophy. Hum Mol Genet 2005 14(11):1489–1502
- 41 Maraldi N.M., S. Squarzoni, P. Sabatelli, C. Capanni, E. Mattioli, A. Ognibene, G. Lattanzi Laminopathies: involvement of structural nuclear proteins in the pathogenesis of an increasing number of human diseases J Cell Physiol. 2005 May;203(2):319-27
- 40 Cenni V, Sabatelli P, Mattioli E, Marmiroli S, Capanni C, Ognibene A, Squarzoni S, Maraldi NM, Bonne G, Columbaro M, Merlini L, Lattanzi G. Lamin A N-terminal phosphorylation is associated with myoblast activation: impairment in Emery-Dreifuss muscular dystrophy. J Med Genet. 2005 Mar;42(3):214-20
- 39 Visentin M, Stea S, Squarzoni S, Antonietti B, Reggiani M, Toni A. A new method for isolation of polyethylene wear debris from tissue and synovial fluid. 2004 Biomaterials 25:5531-5537
- 38 Capanni C, P Sabatelli, E Mattioli, A Ognibene, M Columbaro, G Lattanzi, L Merlini, C Minetti, N M. Maraldi and S Squarzoni. Dysferlin in a hyperCKaemic patient with caveolin 3 mutation and in C2C12 cells after p38 MAP kinase inhibition Exp Mol Med. 2003 Dec 31;35(6):538-44.

- 37 Capanni C, V Cenni, E Mattioli, P Sabatelli, A Ognibene, M Columbaro, VK. Parnaik, M Wehnert, NM. Maraldi, S Squarzoni, G Lattanzi Failure of lamin A/C to functionally assemble in R482L mutated familial partial lipodystrophy fibroblasts: altered inter-molecular interaction with emerin and implications for gene transcription. Experimental Cell Research 2003 291(1):122-134
- 36 Maraldi N. M., G. Lattanzi, P. Sabatelli, A. Ognibene, M. Columbaro, C. Capanni, C. Rutigliano, E. Mattioli, S. Squarzoni Immunocytochemistry of nuclear domains and Emery-Dreifuss muscular dystrophy pathophysiology European Journal of Histochemistry 2003 47(1):3-16
- 35 Sabatelli P., M. Columbaro, I. Mura, C. Capanni, G. Lattanzi, N. M. Maraldi, D. Beltràñ-Valero de Barnabè, H. van Bokoven, S. Squarzoni, L. Merini 2003 RPD 509214 Extracellular matrix and nuclear abnormalities in skeletal muscle of a patient with Walker-Warburg syndrome caused by POMT1 mutation BBA (Mol. Bas. Dis.) 2003 May 20;1638(1):57-62
- 34 Lattanzi G, V Cenni, S Marmiroli, C Capanni, E Mattioli, L Merlini, S Squarzoni, NM Maraldi. Association of emerin with nuclear and cytoplasmic actin is regulated in differentiating myoblasts BBRC 2003 303:764-770
- 33 Maraldi N.M, G. Lattanzi, P. Sabatelli, A. Ognibene, S. Squarzoni Functional domains of the nucleus: implications for Emery-Dreifuss muscular dystrophy Neuromuscular Disorders, 2002 12 (9) 815-823 IF: 2.894
- 32 Muntoni F., E. Bertini, C. Bonnemann, M. Brockington, S. Brown, K. Bushby, M. Fiszman, C. Korner, E. Mercuri, L. Merlini, J. Hewitt, S. Quijano-Roy, N. Romero, S. Squarzoni, C.A. Sewry, V. Straub, H. Topaloglu, G. Haliloglu, T. Voit, U. Wewer, P. Guicheney. 98th ENMC International Workshop on Congenital Muscular Dystrophy Workshop of the MYO CLUSTER project GENRE - 26-28th October, 2001, Naarden, The Netherlands Neuromuscular Disorders, 2002 12 (9) 889-896
- 31 Bonne G, Capeau J, De Visser M, Duboc D, Merlini L, Morris GE, Muntoni F, Recan D, Sewry C, Squarzoni S, Stewart C, Talim B, van der Kooi A, Worman H, Schwartz K. 82nd ENMC international workshop, 5th international Emery-Dreifuss muscular dystrophy (EDMD) workshop, 1st Workshop of the MYO-CLUSTER project EUROMEN (European muscle envelope nucleopathies), 15-16 September 2000, Naarden, The Netherlands. Neuromuscul Disord. 2002 Feb;12(2):187-94.
- 30 Zhang RZ, Sabatelli P, Pan TC, Squarzoni S, Mattioli E, Bertini E, Pepe G, Chu ML. Effects on collagen VI mRNA stability and microfibrillar assembly of three COL6A2 mutations in two families with Ullrich congenital muscular dystrophy. J Biol Chem. 2002 277(46):43557-43564
- 29 Columbaro M, Mattioli E, Lattanzi G, Rutigliano C, Ognibene A, Maraldi NM, Squarzoni S. Staurosporine treatment and serum starvation promote the cleavage of emerin in cultured mouse myoblasts: involvement of a caspase-dependent mechanism. FEBS Lett. 2001 Dec 14;509(3):423-9
- 28 Sabatelli P, Bonaldo P, Lattanzi G, Braghetta P, Bergamin N, Capanni C, Mattioli E, Columbaro M, Ognibene A, Pepe G, Bertini E, Merlini L, Maraldi NM, Squarzoni S. Collagen VI deficiency

- affects the organization of fibronectin in the extracellular matrix of cultured fibroblasts. *Matrix Biol.* 2001 Nov;20(7):475-486.
- 27 Sabatelli P, Lattanzi G, Ognibene A, Columbaro M, Capanni C, Merlini L, Maraldi NM, Squarzoni S. Nuclear Alterations In Autosomal-Dominant Emery-Dreifuss Muscular Dystrophy. *Muscle Nerve* 2001 Jun;24(6):826-829
- 26 Affatato S., A. Sudanese, L. Brizio, S. Squarzoni, A. Toni. Severe wear from a retrieved alumina-on-alumina coupled implant: a case report. *The International Journal of Artificial Organs* 2000 24(9):655-662
- 25 Lattanzi G, Muntoni F, Sabatelli P, Squarzoni S, Maraldi NM, Cenni V, Villanova M, Columbaro M, Merlini L, Marmiroli S. Unusual Laminin alpha2 Processing in Myoblasts from a Patient with a Novel Variant of Congenital Muscular Dystrophy. *Biochem Biophys Res Commun.* 2000 Nov 2;277(3):639-642.
- 24 Lattanzi G, Ognibene A, Sabatelli, Capanni C, Toniolo D, Columbaro M, Santi S, Riccio M, Merlini L, Maraldi NM and Squarzoni S. Emerin expression at the early stages of myogenic differentiation. *Differentiation* 2000 66(4-5): 208-217
- 23 Squarzoni S, Sabatelli P, Capanni C, Petrini S, Ognibene A, Toniolo D, Cobianchi F, Zauli G, Bassini A, Baracca A, Guarnieri C, Merlini L, Maraldi NM. Emerin Presence In Platelets. *Acta Neuropathologica* 2000 100:291-298
- 22 Fries W, Mazzon E, Squarzoni S, Martin A, Martines D, Micali A, Sturniolo GC, Citi S, Longo G. Experimental colitis increases small intestine permeability in the rat. *Lab Invest* 1999 79(1):49-57
- 21 Ognibene A., P. Sabatelli, S. Petrini, S. Squarzoni, M. Riccio, S. Santi, M. Villanova, S. Palmeri, L. Merlini, N.M. Maraldi. 1999 Nuclear changes in a case of X-linked Emery-Dreifuss muscular dystrophy. *Muscle & Nerve* 22(7):864-869
- 20 Maraldi N. M., S. Capitani, C. Cinti, L.M. Neri, S. Santi, L. Stuppia, F.A. Manzoli. 1999 Chromosome spread for confocal microscopy. *Methods in Enzymology* 307:190-207
- 19 Squarzoni S., P. Sabatelli, A. Ognibene, D. Toniolo, L. Cartegni, F. Cobianchi, S. Petrini, L. Merlini, N.M. Maraldi. Immunocytochemical detection of emerin within the nuclear matrix. *Neuromuscul. Disord.* 1998 8(5):338-344
- 18 Sabatelli P, Squarzoni S, Petrini S, Capanni C, Ognibene A, Cartegni L, Cobianchi F, Merlini L, Toniolo D, Maraldi NM. Oral exfoliative cytology for the non-invasive diagnosis in X-linked Emery-Dreifuss muscular dystrophy patients and carriers. *Neuromuscul. Disord.* 1998 Apr;8(2):67-71
- 17 Capanni C, Squarzoni S, Petrini S, Villanova M, Muscari C, Maraldi NM, Guarnieri C, Calderara CM Increase of Neuronal Nitric Oxide Synthase in Rat Skeletal Muscle during Ageing. *Biochem Biophys Res Commun.* 1998 Apr 7; 245(1): 216-219.
- 16 Villanova M., A. Malandrini, P. Sabatelli, C. A. Sewry, P. Toti, S. Torelli, J. Six, G. Scarfó, L. Palma, F. Muntoni, S. Squarzoni, P. Tosi, N. M. Maraldi, G. C. Guazzi: Localization of laminin

- <alpha>2 chain in normal human central nervous system: an immunofluorescence and ultrastructural study. 1997 Acta Neuropathol 94(6): 567-571
- 15 Cartegni L, di Barletta MR, Barresi R, Squarzoni S, Sabatelli P, Maraldi N, Mora M, Di Blasi C, Cornelio F, Merlini L, Villa A, Cobianchi F, Toniolo D Heart-specific localization of emerin: new insights into Emery-Dreifuss muscular dystrophy. Hum Mol Genet 1997 Dec; 6(13):2257-2264
- 14 Bersani F, Marinelli F, Ognibene A, Matteucci A, Cecchi S, Santi S, Squarzoni S, Maraldi NM Intramembrane protein distribution in cell cultures is affected by 50 Hz pulsed magnetic fields. Bioelectromagnetics 18(7), 463-469 (1997)
- 13 Viceconti M, Baleani M, Squarzoni S, Toni A Fretting wear in a modular neck hip prosthesis J Biomed Mater Res 35 (2): 207-216 (May 1997)
- 12 Squarzoni S, Villanova M, Sabatelli P, Malandrini A, Toti P, Pini A, Merlini L, Guazzi GC, Maraldi NM Intracellular detection of laminin alpha 2 chain in skin by electron microscopy immunocytochemistry: comparison between normal and laminin alpha 2 chain deficient subjects Neuromuscul Disord 7(2), 91-98 (1997)
- 11 Malandrini A, Villanova M, Sabatelli P, Squarzoni S, Six J, Toti P, Guazzi G, Maraldi NM Localization of the laminin alpha 2 chain in normal human skeletal muscle and peripheral nerve: an ultrastructural immunolabeling study Acta Neuropathol (Berl) 93, 166-172 (1997)
- 10 Squarzoni S, Cinti C, Santi S, Valmori A, Maraldi NM Preparation of chromosome spreads for electron (TEM, SEM, STEM), light and confocal microscopy. Chromosoma 103, 381-392 (1994)
- 9 Santi S, Rubbini S, Cinti C, Squarzoni S, Matteucci A, Caramelli E, Guidotti L, Maraldi NM Nuclear matrix involvement in sperm head structural organization. Biol. Cell 81, 47-57 (1994)
- 8 Pizzoferrato A, Stea S, Sudanese A, Toni A, Nigrisoli M, Gualtieri G, Squarzoni S Morphometric and microanalytical analyses of alumina wear particles in hip prostheses. Biomaterials 14(8):583-587 (1993)
- 7 Squarzoni S, Sabatelli P, Maltarello MC, Cataldi A, di Primio R, Maraldi NM Localization of dystrophin COOH-terminal domain by the fracture-label technique. J. Cell Biol. 118, 1401-1409 (1992)
- 6 Maraldi NM, Zini N, Squarzoni S, Del Coco R, Sabatelli P, Manzoli FA Intranuclear localization of phospholipids by ultrastructural cytochemistry. J. Histochem. Cytochem. 40, 1383-1392 (1992)
- 5 Maraldi NM, Marinelli F, Squarzoni S, Santi S, Barbieri M Image analysis techniques. The problem of the quantitative evaluation of the chromatin ultrastructure. Cytotechnology 5, 107-110 (1991)

- 4 Marinelli F, Falcieri E, Squarzoni S, Del Coco R, Zini N, Manzoli L, Maraldi NM Image analysis of the chromatin organization in the nuclear domains of freeze fractured hepatocytes and lymphocytes. *Biol. Cell* 70, 107-119 (1990)
- 3 Squarzoni S, Zini N, Marinelli F, Maraldi NM Reduction of background labeling in colloidal gold-enzyme reactions. *Histochemistry* 94, 297-301 (1990)
- 2 Marinelli F, Squarzoni S, Maraldi NM, DiLoreto C, Rubini C, Mariuzzi GM, Castagnani R Morphometric study of chromatin pattern in freeze-fractured rat liver nuclei during malignancy evolution. *Pathol Res Pract* 185, 769-773 (1989)
- 1 Zini N, Matteucci A, Squarzoni S, Galanzi A, Rizzoli R, Papa S Electron microscopy microsampling of isolated nuclei sorted by flow cytometry. *Cytometry* 7, 605-608 (1986)

ARTICLES IN JOURNALS NOT RANKED IN ISI-JOURNAL OF CITATION REPORTS

- 13 Tagliavini F, Sardone F, Squarzoni S, Maraldi NM, Merlini L, Faldini C, Sabatelli P Ultrastructural changes in muscle cells of patients with collagen VI-related myopathies. *Muscles Ligaments Tendons J.* 2014 Feb 24;3(4):281-6.
- 12 Lesci IG, Ciocca L, Dozza B, Lucarelli E, Squarzoni S, Donati D, Roveri N. Innovative Composite HA Scaffold Rapid Prototyping for Bone Reconstruction: an In-Vitro Pilot Study. *Key Engineering Materials* 2014 583:56-63
- 11 Benedetti S, Bernasconi P, Bertini E, Biagini E, Boriani G, Capanni C, Carboni N, Columbaro M, D'Adamo M, D'Amico A, D'Apice MR, Fontana M, Gambineri A, Lattanzi G, Liguori R, Maraldi NM, Mazzanti L, Mercuri E, Mongini T, Morandi LO, Neri I, Nigro G, Novelli G, Ortolani M, Pasquali R, Pini A, Petrini S, Politano L, Previtali S, Pucci L et al. The empowerment of translational research: Lessons from laminopathies. *Orphanet Journal of Rare Diseases* 2012, 7:37
- 10 Maraldi NM, Capanni C, Del Coco R, Squarzoni S, Columbaro M, Mattioli E, Lattanzi G, anzoli FA. Muscular laminopathies: Role of prelamin A in early steps of muscle differentiation. *Adv Enzyme Regul.* 2011 51(1):246-56
- 9 Maraldi NM, Capanni C, Mattioli E, Columbaro M, Squarzoni S, Parnaik WK, Wehnert M, Lattanzi G. A pathogenic mechanism leading to partial lipodystrophy and prospects for pharmacological treatment of insulin resistance syndrome. *Acta Biomed.* 2007; 78:207-15.
- 8 Maraldi NM, Lattanzi G, Capanni C, Columbaro M, Mattioli E, Sabatelli P, Squarzoni S, Manzoli FA. Laminopathies: A chromatin affair. *Adv Enzyme Regul.* 2006;46:33-49
- 7 Maraldi NM, Lattanzi G, Squarzoni S, Capanni C, Cenni V, Manzoli FA. Implications for nuclear organization and gene transcription of lamin A/C specific mutations. *Adv Enzyme Regul.* 2005 45:1-16

- 6 Maraldi Nadir M., Giovanna Lattanzi, Sandra Marmiroli, Stefano Squarzoni, Francesco A. Manzoli. New roles for lamins, nuclear envelope proteins and actin in the nucleus. *Advan. Enzyme Regul.* 44 (2004) 155–172
- 5 Maraldi NM, Lattanzi G, Squarzoni S, Sabatelli P, Marmiroli S, Ognibene A, Manzoli FA. At the nucleus of the problem: nuclear proteins and disease. *Adv Enzyme Regul.* 2003;43:411-43.
- 4 Maraldi NM, Squarzoni S, Sabatelli P, Lattanzi G, Ognibene A, Manzoli FA. Emery-dreifuss muscular dystrophy, nuclear cell signaling and chromatin remodeling. *Adv Enzyme Regul.* 2002;42:1-18.
- 3 Busanelli L, Squarzoni S, Brizio L, Tigani D, Sudanese A Wear in carbon fiber-reinforced polyethylene (poly-two) knee prostheses. *Chir Organi Mov* 81, 263-267 (1996) ISSN 0009-4749
- 2 Toni A, Stea S, Squarzoni S, Sudanese A, Masetti G, Maraldi N, Pizzoferrato A, Giunti A. Considerations on ceramic prosthesis explants. *Chir Organi Mov* 77, 359-371 (1992) ISSN 0009-4749
- 1 Maraldi NM, Mazzotti G, Capitani S, Rizzoli R, Zini N, Squarzoni S, Manzoli FA Morphological evidence of function-related localization of phospholipids in the cell nucleus. *Adv. Enzyme Regul.* 32, 73-90 (1992)

Book Chapters

Bersani F., Marinelli M., Ognibene A., Matteucci A., Squarzoni S., Maraldi N.M. Intramembrane particle (IMP) redistribution in cell cultures exposed to ELF pulsed magnetic fields. in “Electromagnetics in medicine and biology” C.T. Brighton and S.R. Pollack Eds., San Francisco Press Inc., San francisco Ca. USA 1991 **ISBN-10:** 0911302654