

FISO Technologies Inc. is a pioneer in the introduction of fiber-optic sensing technologies to medical applications and has built a strong reputation in laboratories and medical research centers with the versatility of solutions provided.

This White Paper is a selected list of publications from researchers between 2000-2018 utilizing FISO's pressure and temperature sensors for medical applications.

Pressure & Temperature Sensors

1. Pinet É., Inaudi D. (2018). **Large-volume Fabry-Pérot fiber-optic sensors production for medical devices and industrial applications.** Proceedings of OFS-26 (Geneva, Switzerland)
2. Kong D.R., He B.B., Wu A.J., Wang J.G., Yu F.F., & Xu J.M. (2013). **Fiberoptic sensor for noninvasive measurement of variceal pressure.** Endoscopy, 45(S 02), E55-E56.
3. Pinet É. (2009). **Fabry-Pérot Fiber optic sensors for physical parameters measurement in challenging conditions.** Journal of Sensors Vol 2009 ID720980
4. Pinet É, and Hamel C. (2007). **True challenges of disposable optical fiber sensors for clinical environment.** Third European Workshop on Optical Fibre Sensors, vol. 6619 of Proceedings of SPIE, pp. 1-4, Napoli, Italy.
5. Hamel C., & Pinet É. (2006). **Temperature and pressure fiber-optic sensors applied to minimally invasive diagnostics and therapies.** Biomedical Optics 2006, pp. 608306-608306.

Pressure Sensors

General

6. Paulo Roriz, Orlando Frazão, Antonio B. Lobo-Ribeiro, José L. Santos, José A. S Simões. (2015). **Optical Fibre Pressure Sensors in Medical Applications.** Sensors 2015, 15, 17115-17148.
7. Pinet É. (2011). **Pressure measurement with fiber-optic sensors: Commercial technologies and applications.** Invited Paper. 21st International Conference on Optical Fiber Sensors, edited by Wojtek J. Bock, Jacques Albert, Xiaoyi Bao, Proc. of SPIE Vol. 7753, 775304.
8. Sven Poeggel, Daniele Tosi, DineshBabu Duraibabu, Gabriel Leen, Deirdre McGrath, Elfed Lewis. (2015). **Optical Fibre Pressure Sensors in Medical Applications.** Sensors 2015, 15, 17115-17148.

Cardiology

9. Tsuchimochi H., Inagaki T., Shirai M. (2015). **Importance of body temperature control for the evaluation of cardiac function in anesthetized mice.** In 92nd Annual Meeting of the Physiological Society of Japan, March 21-23, 2015, Kobe, Japan (P-219).
10. Yarham, Gemma & Clements, A & Morris, Chris & Cumberland, T & Bryan, M & Oliver, M & Burrows, H & Mulholland, J. (2012). **Fiber-optic intra-aortic balloon therapy and its role within cardiac surgery.** Perfusion. 28. 10.1177/0267659112454156.

11. Romanov, V. V., Darvish, K., & Assari, S. (2010). **Characterization of Material Properties of Aorta from Oscillatory Pressure Tests.** In 26th Southern Biomedical Engineering Conference SBEC 2010, April 30-May 2, 2010, College Park, Maryland, USA (pp. 380-384). International Society for Optics and Photonics.
12. Diletti Roberto & Van Mieghem, Nicolas & Valgimigli, Marco & Karanasos, Antonios & Everaert, Bert & Daemen, Joost & Geuns, Robert-Jan & P de Jaegere, Peter & Zijlstra, Felix & Regar, Evelyn. (2015). **Rapid exchange ultra-thin microcatheter using fibre-optic sensing technology for measurement of intracoronary fractional flow reserve.** EuroIntervention: journal of EuroPCR in collaboration with the Working Group on Interventional Cardiology of the European Society of Cardiology. 11. 10.4244/EIJY15M05_09.
13. Pinet, Éric & Pham, A & Rioux, S. (2005). **Miniature fiber optic pressure sensor for medical applications: An opportunity for intra-aortic balloon pumping (IABP) therapy.** Proceedings of SPIE - The International Society for Optical Engineering. 5855. 234-237. 10.1117/12.623806.
14. Konieczny G., Opilski Z., Pustelny T., & Maciak E. (2009). **State of the work diagram of the artificial heart.** Acta Physica Polonica-Series A General Physics, 116(3), 344.
15. Konieczny G., Opilski Z., Pustelny T., Maciak E. (2008). **Fiber Pressure Sensor for the Polvad Prosthesis.** Molecular and Quantum Acoustics, vol. 29, pages 135-141.
16. Konieczny G., Opilski Z., Pustelny T., Gacek A., Gibinski P., Kustosz R. (2010). **Results of Experiments with Fiber Pressure Sensor Applied in the Polish Artificial Heart Prosthesis.** Acta Physica Polonica A, 118(6), 1183-1185.
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18. Machino-Ohtsuka Tomoko, Tajiri Kazuko, Kimura Taizo, Sakai Satoshi, Sato Akira, Yoshida Toshimichi, Hiroe Michiaki, Yasutomi Yasuhiro, Aonuma Kazutaka, Imanaka-Yoshida Kyoko. (2014). **Tenascin-C Aggravates Autoimmune Myocarditis via Dendritic Cell Activation and Th17 Cell Differentiation.** Journal of American Heart Association, 2014; 3:e001052; doi: 10.1161/JAHA.114.001052.
19. Laksari, K., Agah, M. R., Rachev, A., & Darvish, K. (2012, March). **Investigating the effects of dynamic and static loading on the stability of porcine aorta.** Bioengineering Conference (NEBEC), 38th Annual Northeast (pp. 205-206). IEEE.
20. Ping Zhang, Min Su, Yunlong Liu, Andrew Hsu, Hiroki Yokota. (2007). **Knee Loading Dynamically Alters Intramedullary Pressure in Mouse Femora.** Bone, 40(2) : 538-543.
21. Yoshida, Hideyo & Marunaka, Yoshinori & Nakahari, Takashi. (2003). **[Ca²⁺] _i Oscillations Induced by High [K⁺] _o in Acetylcholine-Stimulated Rat Submandibular Acinar Cells: Regulation by Depolarization, cAMP and Pertussis Toxin.** Experimental physiology. 88. 369-79. 10.1113/eph8802566.

Anaesthesia; Fluid/Drug Delivery

22. Saporito, Andrea & Quadri, C & Kloth, N & Capdevila, X. (2018). **The effect of rate of injection on injection pressure profiles measured using in-line and needle-tip sensors: an in-vitro study.** Anaesthesia. 10.1111/anae.14415.
23. Quadri, C & Saporito, Andrea & Capdevila, X. (2017). **Real-time continuous monitoring of injection pressure at the needle tip for peripheral nerve blocks: Description of a new method.** Anaesthesia. 73. 10.1111/anae.14041.
24. Saporito, Andrea & Quadri, C & Capdevila, X. (2018). **The ability of a real-time injection pressure monitoring system to discriminate between perineural and intraneural injection of the sciatic nerve in fresh cadavers.** Anaesthesia. 73. 10.1111/anae.14330.

Intramuscular, Biomechanics

25. Benjamin B Wheatley, Gregory M Odegard, Kenton R Kaufman, Tammy L Haut Donahue. (2016), **A Validated model of passive skeletal muscle to predict force to predict force and intramuscular pressure.** Biomechanics and Modeling in Mechanobiology.
26. Shanette A.Go, Elisabeth Jensen, Shawn M. O'Connor, Loribeth Q. Evertz, Duane A. Morrow, Samuel Richard Ward, Richard L Lieber, Kenton R Kaufman. (2016), **Design Considerations of a Fiber Optic Pressure Protective Housing for Intramuscular Pressure Measurements.** Biomechanics Engineering.
27. Emma Fortune, Jeremy Crenshaw, Vipul Lugade, Kenton R Kaufman. (2017), **Dynamic assessment of the center of pressure measurement from an instrumented AMTI treadmill with controlled precision.** Biomechanics Engineering.

Intracranial

28. Chavko M, Koller WA, Prusaczyk WK, McCarron RM. (2007). **Measurement of blast wave by a miniature fiber optic pressure transducer in the rat brain.** J Neurosci Methods, 159(2): 277-81.
29. Richard A. Bauman, Geoffrey Ling, Lawrence Tong, Adolph Januskiewicz, Denes Agoston, Nihal Delanerolle, Young Kim, Dave Ritzel, Randy Bell, James Ecklund, Rocco Armonda, Faris Bandak, Steven Parks (2009). **An Introductory Characterization of a Combat-Casualty-Care Relevant Swine Model of Closed Head Injury Resulting from Exposure to Explosive Blast.** Journal of Neurotrauma, 26(6): 841-860.
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Otology

Refereed Papers

32. Alhussaini, Mohamed & Banakis Hartl, Renee & Benichoux, Victor & Tollin, Daniel & Jenkins, Herman & Greene, Nathaniel. (2018). Intracochlear Pressures in Simulated Otitis Media With Effusion: A Temporal Bone Study. *Otology & Neurotology*. 1. 10.1097/MAO.0000000000001869.
33. Peacock, John & Alhussaini, Mohamed & Greene, Nathaniel & Tollin, Daniel. (2018). Intracochlear pressure in response to high intensity, low frequency sounds in chinchilla. *Hearing Research*. 10.1016/j.heares.2018.06.013.
34. Martin Grossöhmichen, Bernd Waldmann, Rolf Salcher, Nils Prenzler, Thomas Lenarz, Hannes Maier. (2017). **Validation of methods for prediction of clinical output levels of active middle ear implants from measurements in human cadaveric ears**. November 2017, *Scientific Reports* 7(1).
35. Martin Grossöhmichen, Rolf Salcher, Thomas Lenarz, Hannes Maier. (2017). **Measurement of Intracochlear Pressure Differences in Human Temporal Bones Using an Off-the-Shelf Pressure Sensor**. In book: *Biomedical Technology*.
36. Nyssa F Farrell, Renee M. Banakis, Victor Benichoux, Andrew Brown, Stephen P. Cass, Daniel J.Tollin. (2017), **Intracochlear Measurements of Interaural Time and Level Differences Conveyed by Bilateral Bone Conduction Systems**. *Otology & Neurotology* 2017.
37. Renee M. Banakis Hartl, Jameson K. Mattingly, Nathaniel T.Greene, Nyssa F Farrell, Samuel P Gubbels, Daniel J.Tollin. (2017), **Drill-induced Cochlear Injury During Otologic Surgery: Intracochlear Pressure Evidence of Acoustic Trauma**. *Otology & Neurotology* 2017.
38. IngoTodt, A. Ernst, P. Mittmann. (2016), **Effects of different insertion techniques of a cochlear implant electrode on the intracochlear pressure**. *Otology & Neurotology* 2016;21:30–37.
39. Nathaniel T.Greene, Herman A.Jenkins, Daniel J.Tollin, James R.Easter. (2017), **Stapes displacement and intracochlear pressure in response to very high level, low frequency sounds**. *Hearing Research* (2017)1-15.
40. Jameson K. Mattingly, Nathaniel T. Greene, Herman A. Jenkins, Daniel J. Tollin, James R. Easter, Stephen P. Cass. (2015). **Effects of skin thickness on cochlear input signal using transcutaneous bones conduction implants**. *Otology & Neurotology* 2015 Sept; 36(8):1403-11.
41. Nathaniel T. Greene, Jameson K. Mattingly, Herman A. Jenkins, Daniel J. Tollin, James R. Easter, Stephen P. Cass. (2015). **Cochlear implant Electrode Effect on Sound Energy Transfer within the Cochlea during Acoustic stimulation**. *Otology & Neurotology* 2015 Sep; 36(9):1554-61.
42. James R. Easter. (2015). **Mechanisms and Mitigation of Hearing Loss from Blast Injury**. U.S. Army Medical Research and Materiel Command, Annual rept.

Spinal cord

43. Jacqueline Soicher. (2015), **Evaluating the feasibility of quantifying spinal cord swelling as a function of Pressure using fiber considerations of a Fiber Optic Pressure Sensors**. UBC theses and Dissertations.
44. Jacqueline Soicher Femke Streijger, Brian Know, Peter Cripton. (2014). **Quantifying Spinal Cord Swelling using fiber Optic Sensors**. IRCOBI Conference 2014.

Ophthalmology

45. Ma J.J., Bellevile C., Nouri M., Ahmed E., & Dohlman C.H. (2003). **Interferometry for a Noncontact, in vivo Method to Measure Intraocular Pressure using Silicone MEMS (Micro-electromechanical Systems) Photolithography Based Chips on a Keratoprosthesis (Kpro)**. Investigative Ophthalmology and Visual Science, 44(5), 4703.
46. Ohnuma, O., et al. (2006). **Intraocular pressure change during phacoemulsification and aspiration**. Journal of the Eye 23(9), 1225.
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49. Zhou Y., Grinchuk O., & Tomarev S. I. (2008). **Transgenic mice expressing the Tyr437His mutant of human myocilin protein develop glaucoma**. Investigative ophthalmology & visual science, 49(5), 1932-1939.
50. Ahmed E., Ma J., Rigas I., Hafezi-Moghadam N., Iliaki E., Gragoudas E. S., ... & Adamis A. P. (2003). **Non-invasive tonometry in the mouse**. Investigative Ophthalmology and Visual Science, 44(5), 3336.
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52. Chi Z.L., Akahori M., Obazawa M., Minami M., Noda T., Nakaya N., ... & Iwata T. (2010). **Overexpression of optineurin E50K disrupts Rab8 interaction and leads to a progressive retinal degeneration in mice**. Human molecular genetics, 19(13), 2606-2615.

Temperature Sensors

General

53. d'Ambrosio G., De Prisco G., Massa, R. (2002, June). **Design, Construction, and Testing of the In Vitro Exposure System for the European "CEMFEC" Project.** Bioelectromagnetics Society Annual Meeting, Quebec City, Canada.
54. Fan M., Xu S., Xia S., Zhang X. (2008). **Preparation of salidroside nano-liposomes by ethanol injection method and in vitro release study.** European Food Research and Technology, Volume 227, Issue 1, pp 167-174.
55. Fan M., Xu S., Xia S., Zhang X. (2007). **Effect of Different Preparation Methods on Physicochemical Properties of Salidroside Liposomes.** J. Agric. Food Chem., 55 (8), pp 3089–3095.
56. Jae-Won Ha, Sang-Ryeol Ryu, Dong-Hyun Kang. (2012). **Evaluation of Near-Infrared Pasteurization in Controlling *Escherichia coli* O157:H7, *Salmonella enterica* Serovar Typhimurium, and *Listeria monocytogenes* in Ready-To-Eat Sliced Ham.** Appl Environ Microbiology, 78(18): 6458–6465.

Electric field

Refereed Papers

57. Chen X, James Swanson R, Kolb JF, Nuccitelli R, Schoenbach KH. (2009). **Histopathology of normal skin and melanomas after nanosecond pulsed electric field treatment.** Melanoma Research, 19(6):361-71.
58. Sun Ja Kim, T. H. Chung, S. H. Bae, and S. H. Leem. (2009). **Bacterial inactivation using atmospheric pressure single pin electrode microplasma jet with a ground ring.** Appl. Phys. Lett. 94, 141502.

MRI / Radiofrequency / Radiation Therapy

Conference Papers

59. Andreas Fhager, Hana Trefna, Massoud, Shafiemehr, Mikael Persson (2015): **On the Use of Microwave Bases Thermal Monitoring in Hyperthermia,** Antennas and Propagation (EuCAP), 2015 9th European Conference, At Lisbon, Portugal

Refereed Papers

60. Anirudh Sharma, Christine Cornejo, Jana Mihalic, Alison Geyh, David E. Bordelon, Preethi Korangath, Fritz Westphal, Cordula Gruettner & Robert Ivkov (2018): **Physical characterization and *in vivo* organ distribution of coated iron oxide nanoparticles,** Scientific Reports, 8:4916.
61. Fatemeh Adibzadeh, Margarethus M. Paulides & Gerard C. van Rhoon (2018): **SAR thresholds for electromagnetic exposure using functional thermal dose limits,** Int J Hyperthermia, DOI: 10.1080/02656736.2018.1424945

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62. Tomas Drizdal, Margarethus M. Paulides, Netteke van Holthe & Gerard C. van Rhoon (2017): **Hyperthermia treatment planning guided applicator selection for sub-superficial head and neck tumors heating**, Int J Hyperthermia, DOI: 10.1080/02656736.2017.1383517
63. Elles A. L. Raaijmakers, Rob M. C. Mestrom, K. Sumser, Ghassan Salim, Gerard C. van Rhoon, Jeroen Essers & Margarethus M. Paulides (2017): **An MR-compatible antenna and application in a murine superficial hyperthermia applicator**, Int J Hyperthermia, DOI: 10.1080/02656736.2017.1369172
64. Anilchandra Attaluri, Sri Kamal Kandala, Michele Wabler, Haoming Zhou, Christine Cornejo, Michael Armour, Mohammad Hedayati, Yonggang Zhang, Theodore L. DeWeese, Cila Herman, and Robert Ivkov (2015): **Magnetic nanoparticle hyperthermia enhances radiation therapy: A study in mouse models of human prostate cancer**, Int J Hyperthermia, 2015 June; 31(4): 359–374.
65. John A. Pearce, Alicia A. Petyk, Jack Hoopes (2014): **FEM Numerical Model Analysis of Magnetic Nanoparticle Tumor Heating Experiments**, Conf Proc IEEE Eng Med Biol Soc., 2014: 5312–5315.
66. René F. Verhaart, Zef Rijnen, Valerio Fortunati, Gerda M. Verduijn, Theo van Walsum, Jifke F. Veenland, Margarethus M. Paulides (2014): **Temperature simulations in hyperthermia treatment planning of the head and neck region Rigorous optimization of tissue properties**, Journal of Radiation Oncology, Biology, Physics 190 (12); 1117-1124.
67. Matthew R. Tarasek, Ruben Pellicer, Lorne W. Hofstetter, Wouter C. M. Numan, Jurriaan F. Bakker, Gyula Kotek, Paolo Togni, Rene F. Verhaart, Eric W. Fiveland, Gavin C. Houston, Gerard C. van Rhoon, Margarethus Marius Paulides & Desmond Teck Beng Yeo (2014): **Validation of MR thermometry: Method for temperature probe sensor registration accuracy in head and neck phantoms**. Int J Hyperthermia, 30(2): 142–149
68. Zef Rijnen, Jurriaan F. Bakker, Richard A.M. Canters, Paolo Togni, Gerda M. Verduijn, Peter C. Levendag, Gerard C. Van Rhoon, and Margarethus M. Paulides (2013): **Clinical integration of software tool VEDO for adaptive and quantitative application of phased array hyperthermia in the head and neck**, Int J Hyperthermia 29(3):181-193.
69. Alicia A. Petyk, Andrew J. Giustini, Rachel E. Gottesman, B. Stuart Trembly, P. Jack Hoopes (2013): **Comparison of magnetic nanoparticle and microwave hyperthermia cancer treatment methodology and treatment effect in a rodent breast cancer model**, Int J Hyperthermia, December; 29(8): 819–827.
70. Mohammad Hedayati, Owen Thomas, Budri Abubaker-Sharif, Haoming Zhou, Christine Cornejo, Yonggang Zhang, Michele Wabler, Jana Mihalic, Cordula Gruettner, Fritz Westphal, Alison Geyh, Theodore I Deweese, and Robert Ivkov (2013): **The effect of cell-cluster size on intracellular nanoparticle-mediated hyperthermia: is it possible to treat microscopic tumors**, Nanomedicine (Lond) January ; 8(1): 29–41.
71. J. Van Der Zee, M. De Bruijne, J.W.M. Mens, A. Ameziane, M.P. Broekmeyer-Reurink, T. Drizdal, M. Linthorst, & G.C. Van Rhoon (2010): **Reirradiation combined with hyperthermia in breast cancer recurrences; Overview of experience in Erasmus MC.**, Int. J. Hyperthermia, October; 26(7): 638–648. 2010

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72. Verduijn, Gerda & M. de Wee, E & Rijnen, Zef & Togni, Paolo & A. U. Hardillo, J & Hove, Ivo & Franckena, Martine & Rhoon, Gerard & Paulides, Margarethus. (2018). **Deep hyperthermia with the HYPERcollar system combined with irradiation for advanced head and neck carcinoma – a feasibility study.** International Journal of Hyperthermia. 1-8. 10.1080/02656736.2018.1454610.
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76. Zhai Y, Xie H, Gu H (2009): **Effects of hyperthermia with dextran magnetic fluid on the growth of grafted H22 tumor in mice,** Int J Hyperthermia, Vol. 25, No. 1: Pages 65-71.
77. Naehle CP, Meyer C, Thomas D, Remerie S, Krautmacher C, Litt H, Luechinger R, Fimmers R, Schild H, Sommer T (2008): **Safety of brain 3-T MR imaging with transmit-receive head coil in patients with cardiac pacemakers: pilot prospective study with 51 examinations,** Radiology, 249:991-1001.
78. Saman Nazarian, Aravindan Kolandaivelu, Menekhem M. Zviman, Glenn R. Meininger, Ritsushi Kato, Robert C. Susil, Ariel Roguin, Timm L. Dickfeld, Hiroshi Ashikaga, Hugh Calkins, Ronald D. Berger, David A. Bluemke, Albert C. Lardo, and Henry R. Halperin (2008): **Feasibility of Real-Time Magnetic Resonance Imaging for Catheter Guidance in Electrophysiology Studies,** Circulation, 118:223-229.
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80. Sally J. DeNardo, Gerald L. DeNardo, Arutselvan Natarajan, Laird A. Miers, Allan R. Foreman, Cordula Gruettner, Grete N. Adamson, Robert Ivkov (2007): **Thermal Dosimetry Predictive of Efficacy of ¹¹¹In-ChL6 Nanoparticle AMF-Induced Thermoablative Therapy for Human Breast Cancer in Mice,** J Nucl Med, vol. 48 no. 3 437-444.
81. Ruizhi Xu, Yu Zhang, Ming Ma, Jingguang Xia (2007): **Measurement of Specific Absorption Rate and Thermal Simulation for Arterial Embolization Hyperthermia in the Maghemite-Gelled Model,** IEEE Transactions on Magnetics, vol. 43, pp 1078-1085.
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83. Raval, A. N., Karmarkar, P. V., Guttman, M. A., Ozturk, C., DeSilva, R., Aviles, R. J., Wright, V. J., Schenke, W. H., Atalar, E., McVeigh, E. R. and Lederman, R. J. (2006): **Real-time MRI guided atrial septal puncture and balloon septostomy in swine**, Cathet. Cardiovasc. Intervent., 67: 637–643.
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87. Tomoyoshi Seto, Makoto Takenoshita, Yoshihisa Fujino, Shuichi Nosaka (2004): **New MR-Compatible Thermometer for MR-Guided Surgery**, Anesthesiology, 101: A539.
88. Ariel Roguin, Menekhem M. Zviman, Glenn R. Meininger, E. Rene Rodrigues, Timm M. Dickfeld, David A. Bluemke, Albert Lardo, Ronald D. Berger, Hugh Calkins, and Henry R. Halperin (2004): **Modern Pacemaker and Implantable Cardioverter/Defibrillator Systems Can Be Magnetic Resonance Imaging Safe: In Vitro and In Vivo Assessment of Safety and Function at 1.5 T.**, Circulation, 110: 475-482.
89. Torsten Sommer, Christian Vahlhaus, Gerhard Lauck, Alexander v. Smekal, Marcus Reinke, Ulrich Hofer, Wolfgang Block, Frank Träber, Christian Schneider, Jürgen Gieseke, Werner Jung, and Hans Schild (2000): **MR Imaging and Cardiac Pacemakers: In Vitro Evaluation and in Vivo Studies in 51 Patients at 0.5 T.** Radiology, 215:3 869-879.