

A report made in Pure. Prepared by: Christian Baumgartner (christian.baumgartner@tugraz.at), 26/03/19 11:51

Research outputs

Listing of Research outputs

2019

A Model for Assessing the Fluid Status of Cardiac Intensive Care Patients Using System Theory. / Bergmoser, Katharina Maria; Horn, Martin; Pflanzl-Knizacek, Lucas; Schilcher, Gernot; Rienmüller, Theresa Margarethe; Sourij, Harald; Eller, Philipp; Baumgartner, Christian.

In: Medical & biological engineering & computing, 2019.

Research output: Contribution to journal › Article › Submitted

A novel hybrid modeling approach for the evaluation of integrated care and economic outcome in heart failure treatment. / Lassnig, Alexander; Rienmüller, Theresa Margarethe; Kramer, Diether ; Leodolter, Werner; Baumgartner, Christian; Schröttner, Jörg.

In: BMC Medical Informatics and Decision Making, 2019.

Research output: Contribution to journal › Article › Submitted

Ensemble Based Approach for Time Series Classification in Metabolomics. / Netzer, Michael; Hanser, Friedrich; Breit, Marc; Weinberger, K.M.; Baumgartner, Christian; Baumgarten, Daniel.

2019. Paper presented at dHealth 2019, Wien, Austria.

Research output: Contribution to conference › Paper

2018

A novel network-based approach for discovering dynamic metabolic biomarkers in cardiovascular disease. /

Baumgartner, Christian; Spath-Blass, Verena; Niederkofler, Verena; Bergmoser, Katharina Maria; Langthaler, Sonja; Lassnig, Alexander; Rienmüller, Theresa Margarethe; Baumgartner, Daniela; Asnani, Aarti; Gerszten, Robert E. .

In: PLoS ONE, Vol. 13(12), No. e0208953, 11.12.2018.

Research output: Contribution to journal › Article

UV/Ozone Surface Treatment for Bonding of Elastomeric COC-Based Microfluidic Devices. / Gleichweit, Eva; Baumgartner, Christian; Diethardt, Reinhard; Murer, Alexander ; Sallegger, Werner; Werkl, Dietmar; Köstler, Stefan. MDPI Proceedings. Vol. 2 2018. 943.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Model-based vestibular afferent stimulation: Evaluating selective electrode locations and stimulation waveform shapes. / Schier, Peter; Handler, Michael; Johnson Chacko, Lejo ; Schrott-Fischer, Anneliese; Fritscher, Karl; Saba, Rami; Baumgartner, Christian; Baumgarten, Daniel.

In: Frontiers in neuroscience, Vol. 12, 588, 30.08.2018.

Research output: Contribution to journal › Article

Estimating cardiac intensive care patients' responsiveness to late conservative fluid management using systems analysis. / Bergmoser, Katharina Maria; Langthaler, Sonja; Lassnig, Alexander; Horn, Martin; Baumgartner, Christian.

IFMBE Proceedings. Vol. 68 Prague : Springer, 2018. p. 635-638 (IFMBE Proceedings; Vol. 68).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Temperature-induced modulation of voltage-gated ion channels in human lung cancer cell line A549 using automated patch clamp technology. / Langthaler, Sonja; Bergmoser, Katharina Maria; Lassnig, Alexander; Baumgartner, Christian.

IFMBE Proceedings. Vol. 68 Prague : Springer, 2018. p. 669-673 (IFMBE Proceedings; Vol. 68).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

A data mining strategy for the search and classification of gene expression data in cancer. / Cuder, Gerald; Baumgartner, Christian.

ÖGBMT Proceedings 2018. 2018.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Development of a Clinical Decision Support System in Intensive Care. / Pflanzl-Knizacek, Lucas; Bergmoser, Katharina Maria; Mattersdorfer, Karin; Schilcher, Gernot; Baumgartner, Christian.

Studies in Health Technology and Informatics. IOS Press, 2018. p. 247-254.

Research output: Chapter in Book/Report/Conference proceeding › Chapter

Die Benannte Stelle - Notified Body. / Schröttner, Jörg; Baumgartner, Christian.

Anforderungen an Medizinprodukte: Praxisleitfaden für Hersteller und Zulieferer. ed. / Johann Harer; Christian Baumgartner. 3. ed. München : Carl Hanser Verlag GmbH & Co. KG, 2018. p. 433-448.

Research output: Chapter in Book/Report/Conference proceeding › Chapter

Improving Fluid Management in Critical Care – Towards the ICU of the Future. / Bergmoser, Katharina Maria; Pflanzl-Knizacek, Lucas; Hafner, Matthias; Schilcher, Gernot; Baumgartner, Christian.

Studies in Health Technology and Informatics. IOS Press, 2018. p. 47-54.

Research output: Chapter in Book/Report/Conference proceeding › Chapter

Sicherheitstechnische Anforderungen. / Neubauer, Robert; Schröttner, Jörg; Baumgartner, Christian.

Anforderungen an Medizinprodukte: Praxisleitfaden für Hersteller und Zulieferer. ed. / Johann Harer; Christian Baumgartner. 3. ed. München : Carl Hanser Verlag GmbH & Co. KG, 2018. p. 151-170.

Research output: Chapter in Book/Report/Conference proceeding › Chapter

2017

Model-based vestibular afferent stimulation: Modular workflow for analyzing stimulation scenarios in patient specific and statistical vestibular anatomy. / Handler, Michael; Schier, Peter; Fritscher, Karl; Raudaschl, Patrik; Chacko, Lejo Johnson; Glückert, Rudolf; Saba, Rami; Schubert, Rainer; Baumgarten, Daniel; Baumgartner, Christian.

In: Frontiers in neuroscience, Vol. 11, No. 713, 05.12.2017.

Research output: Contribution to journal › Article

A dynamic network based approach for discovering new metabolic biomarkers in myocardial injury. / Spath-Blass, Verena; Baumgartner, Christian.

Proceedings der ÖGBMT-Jahrestagung 2017. Wien : Österreichische Gesellschaft für Biomedizinische Technik , 2017. p. 5-6.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Modeling hypothermia induced effects for the heterogeneous ventricular tissue from cellular level to the impact on the ECG. / Kienast, Roland; Handler, Michael; Stöger, Markus; Daniel, Baumgarten; Hanser, Friedrich; Baumgartner, Christian.

In: PLoS ONE, Vol. 12(8), 16.08.2017, p. e0182979.

Research output: Contribution to journal › Article

Optische, lernfähige Dreiachsensensorik. / Buchhold, Niels (Inventor); Baumgartner, Christian (Inventor).

Patent No.: AT 517676 B1 2017-06-15.

Research output: Patent

A new input device for spastics based on strain gauge. / Buchhold, Niels; Baumgartner, Christian.

In: Sensors , Vol. 17, No. 880, 17.04.2017.

Research output: Contribution to journal › Article

A new adaptable, optical high-resolution 3-axis sensor. / Buchhold, Niels; Baumgartner, Christian.

In: Sensors , Vol. 17, No. 254, 27.01.2017.

Research output: Contribution to journal › Article

A modeling approach to heart failure treatment. / Lassnig, Alexander; Baumgartner, Christian; Schröttner, Jörg.

ESM' 2017. 2017. p. 425-427.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Describing Cardiac ICU Patients' Fluid Transfer Characteristics Using System Analysis - a Proof of Concept. /

Bergmoser, Katharina Maria; Pflanzl-Knizacek, Lukas; Langthaler, Sonja; Baumgartner, Christian.

iFAD proceedings and Medical Fluids journal . 2017.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

2016

Umfassendes Service : PMG der TU Graz bleibt weiterhin Prüf- und Zertifizierstelle im Bereich aktiver Medizinprodukte. / Schröttner, Jörg; Baumgartner, Christian.

In: Botenstoff, No. 05, 15.12.2016, p. 26.

Research output: Contribution to journal › Article

Medication process in Styrian hospitals. / Hahnkamper, Patrick; Baumgartner, Christian; Schröttner, Jörg.

Current Directions in Biomedical Engineering, Vol 2, Issue 1. 2016. p. 341–343.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Usability evaluation of a locomotor therapy device considering different strategies. / Langthaler, Sonja; Lassnig, Alexander; Baumgartner, Christian; Schröttner, Jörg.

Current Directions in Biomedical Engineering. Vol 2, Issue 1. 2016. p. 67-69.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Clinical Bioinformatics for Biomarker Discovery in Targeted Metabolomics. / Breit, Marc; Baumgartner, Christian; Netzer, Michael; Weinberger, Klaus M.

Application of Clinical Bioinformatics. Vol. Volume 11 1. ed. Dordrecht : Springer Netherlands, 2016. p. 211-238 (Translational Bioinformatics).

Research output: Chapter in Book/Report/Conference proceeding > Chapter

Discussion of “Computational Electrocardiography: Revisiting Holter ECG Monitoring”. / Baumgartner, Christian; Caiani, Enrico; Dickhaus, Hartmut; Kulikowski, Casimir; Schiecke, Karin; van Bommel, Jan; Witte, Herbert.

In: Methods of information in medicine, Vol. 55, No. 4, 2016, p. 312-321.

Research output: Contribution to journal > Comment/debate

Feature selection on proteomic data for identifying biomarker candidates. / Baumgartner, Christian (Inventor); Plant, Claudia (Inventor); Tilg, Bernhard (Inventor).

IPC No.: PCT/EP2007/008434. Patent No.: EP 2076860.

Research output: Patent

Impact of errors in paper-based and computerized diabetes management with decision support for hospitalized patients with type 2 diabetes. A post-hoc analysis of a before and after study. / Donsa, Klaus; Beck, Peter; Höll, Bernhard; Mader, Julia K; Schaupp, Lukas; Plank, Johannes; Neubauer, Katharina; Baumgartner, Christian; Pieber, Thomas R.

In: International journal of medical informatics, Vol. 90, 2016, p. 58-67.

Research output: Contribution to journal > Article

MUMAL2: Improving sensitivity in shotgun proteomics using cost sensitive artificial neural networks and a threshold selector algorithm. / Cerqueira, Fabio R.; Oliveira, Alcione de Paiva ; Adilson Mendes , Ricardo; Graber, Armin; Baumgartner, Christian.

In: BMC Bioinformatics , 2016, p. 472.

Research output: Contribution to journal > Article

Simulation and Evaluation of Stimulation Scenarios for Targeted Vestibular Nerve Excitation. / Schier, Peter; Handler, Michael; Baumgarten, Daniel; Baumgartner, Christian.

Current Directions in Biomedical Engineering, Vol 2, Issue 1. Vol. 2 2016. p. 139-142.

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution

Standards and Regulations for (Bio)Medical Software. / Schröttner, Jörg; Neubauer, Robert; Baumgartner, Christian. Application of Clinical Bioinformatics. Vol. Volume 11 1. ed. Dordrecht : Springer Netherlands, 2016. p. 307-319 (Translational Bioinformatics).

Research output: Chapter in Book/Report/Conference proceeding > Chapter

The Era of Big Data: From Data-Driven Research to Data-Driven Clinical Care. / Baumgartner, Christian.

Application of Clinical Bioinformatics. Vol. Volume 11 1. ed. Dordrecht : Springer Netherlands, 2016. p. 1-22 (Translational Bioinformatics).

Research output: Chapter in Book/Report/Conference proceeding > Chapter

2015

Data handling and analysis in metabolomics. / Breit, M.; Baumgartner, Christian; Weinberger, K.M.

Current Applications of Chemometrics. ed. / Dominique Rolin. 1. ed. New York : Nova Sciences Publishers, Inc, 2015. p. 181-203.

Research output: Chapter in Book/Report/Conference proceeding > Chapter

Evaluation of an Integrated Telemonitoring Surveillance System in Patients with Coronary Heart Disease. /

Ammenwerth, Elske; Woess, Sebastian; Baumgartner, Christian; Fetz, Bettina; Von der Heidt, Andreas; Kastner, Peter; Modre-Osprian, Robert; Welte, Stefan; Poelzl, Gerhard.

In: Methods of information in medicine, Vol. 54, No. 5, 2015, p. 388-397.

Research output: Contribution to journal > Article

Knowledge Discovery in Proteomic Mass Spectrometry Data. / Netzer, M.; Handler, M.; Pfeifer, B.; Dander, A.; Baumgartner, Christian.

Emerging Trends in Computational Biology, Bioinformatics, and Systems Biology - Algorithms and Software Tools. 1. ed. Elsevier B.V., 2015. p. 503-517.

Research output: Chapter in Book/Report/Conference proceeding > Chapter

Metabolic biomarker discovery - Technical concepts, computational methods and clinical translation. / Breit, Marc; Weinberger, Klaus; Baumgartner, Christian.

Tagungsband zur 40. Jahrestagung der Österreichischen Gesellschaft für Biomedizinische Technik (ÖGBMT). ., 2015.

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution

Modeling and Classification of Kinetic Patterns of Dynamic Metabolic Biomarkers in Physical Activity. / Breit, Marc; Netzer, Michael; Weinberger, Klaus M.; Baumgartner, Christian.

In: PLoS computational biology, Vol. 11(8), 2015, p. e1004454-e1004454.

Research output: Contribution to journal > Article > Research > peer-review

MUMAL2: Improving sensitivity in shotgun proteomics using cost sensitive artificial neural networks and a threshold selector algorithm. / Cerqueira, Fabio R.; Ricardo, Adilson M.; Oliveira, Alcione P.; Graber, Armin; Baumgartner, Christian.

Proceedings of 11th International Conference of the AB3C + Brazilian Symposium of Bioinformatics. ., 2015.

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution

Simulation and evaluation of freeze/thaw cryoablation strategies for the treatment of cardiac arrhythmia. /

Handler, M.; Fischer, G.; Kienast, R.; Seger, M.; Hanser, F.; Baumgartner, Christian.

In: Biomedical Engineering Online , Vol. 14, No. 1, 2015, p. 12-12.

Research output: Contribution to journal > Article

Simulation and evaluation of hypothermal-induced electrophysiological alterations in myocardial tissue. /

Kienast, Roland; Baumgartner, Christian.

Tagungsband zur 40. Jahrestagung der Österreichischen Gesellschaft für Biomedizinische Technik (ÖGBMT). ., 2015.

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution

2014

A combined approach for similarity search and analysis in biochemical molecular databases. / Popovscaia, M.; Baumgartner, Christian.

Tagungsband zur ÖGBMT Jahrestagung 2014. Vol. 4 Hall in Tirol : UMIT Eigenverlag, 2014. p. 65-66 (UMIT - Lecture Notes in Biomedical Computer Science and Mechatronics).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Alterations of field potentials in isotropic cardiomyocyte cell layers induced by multiple endogenous pacemakers under normal and hypothermal conditions. / Kienast, R.; Stöger, M.; Handler, M.; Hanser, F.; Baumgartner, Christian.

In: American journal of physiology / Heart and circulatory physiology, Vol. 307, No. 7, 2014, p. H1013-H1023.

Research output: Contribution to journal › Article

Influence of variations in the angle of different excitation directions in isotropic cardiomyocyte monolayers. /

Kienast, R.; Stöger, M.; Handler, M.; Hanser, F.; Baumgartner, Christian.

UMIT - Lecture Notes in Biomedical Computer Science and Mechatronics. Vol. 4 Hall in Tirol : UMIT Eigenverlag, 2014. p. 53-54 (UMIT - Lecture Notes in Biomedical Computer Science and Mechatronics).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Myocardial blood flow quantification from dynamic CT scans. / Rienmüller, T.; Handler, M.; Rienmüller, R.; Baumgartner, Christian.

Tagungsband zur ÖGBMT Jahrestagung 2014. Vol. 4 Hall in Tirol : UMIT Eigenverlag, 2014. p. 15-16 (UMIT - Lecture Notes in Biomedical Computer Science and Mechatronics).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Simulating effects of increased heat transfer surfaces between applicator tip and refrigerant in cardiac cryoablation. / Handler, M.; Fischer, G.; Kienast, R.; Baumgartner, Christian.

UMIT - Lecture Notes in Biomedical Computer Science and Mechatronics. Vol. 4 Hall in Tirol : UMIT Eigenverlag, 2014. p. 55-56 (UMIT - Lecture Notes in Biomedical Computer Science and Mechatronics).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

2013

Medizintechnik: Herausforderung und Grenzen. / Baumgartner, Christian.

In: Das Medizin-Produkt, 15.01.2013, p. 38-38.

Research output: Contribution to specialist publication › Article

A clinical metabolomics strategy to discover new biomarkers in complex diseases: an overview. / Baumgartner, Christian.

Proceedings BMT 2013. ., 2013. p. 870-871.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

A system for analysing thermal induced effects of propagation direction dependent features in field potentials of cardiomyocyte monolayers using multi-electrode arrays. / Kienast, R.; Fischer, G.; Stöger, M.; Handler, M.; Hanser, F.; Baumgartner, Christian.

Journal of Electrocardiology. Vol. Volume 46(4) ., 2013. p. e32-e32 (Journal of Electrocardiology).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

A system for analyzing thermal induced effects of propagation direction dependent features in field potentials of cardiomyocyte monolayers using multi-electrode arrays. / Kienast, R.; Handler, M.; Stöger, M.; Hanser, F.; Baumgartner, Christian.

Proc. 40th Int. Cong. on Electrocardiology. ., 2013. p. 0-0.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Computer simulation of cardiac cryoablation: comparison with in-vivo data. / Handler, M.; Fischer, G.; Seger, M.; Kienast, R.; Nowak, C.N.; Pehböck, D.; Hintringer, F.; Baumgartner, Christian.

In: Medical engineering & physics, Vol. 35, No. 12, 2013, p. 1754-1761.

Research output: Contribution to journal › Article

Detection of multiple pacemaker centers in cardiomyocyte cell layers for estimating wavefront propagation patterns. / Kienast, R.; Stöger, M.; Fischer, G.; Hanser, F.; Baumgartner, Christian.

Proceedings BMT 2013. ., 2013. p. 357-358.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Discussion of "Time-frequency techniques in biomedical signal analysis: A tutorial review of similarities and differences". / Baumgartner, Christian; Blinowska, K.J.; Cichocki, A.; Dickhaus, H.; Durka, P.J.; McClintock, P.V.E.; Pfurtscheller, G.; Stefanovska, A.; Tong, S.

In: Methods of information in medicine, Vol. 52, No. 4, 2013, p. 297-307.

Research output: Contribution to journal › Article

Effects of tip-applicator positioning on recorded temperature profiles in cryoablation procedures estimated by finite element modeling. / Handler, M.; Kienast, R.; Seger, M.; Nowak, C.N.; Popovscaia, M.; Hanser, F.; Baumgartner, Christian.

Proceedings BMT 2013. ., 2013. p. 49-50.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Genetic network and gene set enrichment analysis to identify biomarkers related to cigarette smoking and lung cancer. / Fang, X; Netzer, M.; Baumgartner, Christian; Bai, C.; Wang, X.D.

In: Cancer treatment reviews, Vol. 39, No. 1, 2013, p. 77-88.

Research output: Contribution to journal › Article

Identifying biologically meaningful groups of genes in the antrogon receptor network. / Popovscaia, M.; Baumgartner, Christian.

Proceedings BMT 2013. ., 2013. p. 955-956.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

MALDI-MS Tissue Imaging Identification of Biliverdin Reductase B Overexpression in Prostate Cancer. / Pallua, J.D.; Schäfer, G.; Seifarth, C.; Becker, M.; Schneider, S.; Meding, S.; Rauser, S.; Walch, A.; Handler, M.; Netzer, M.; Popovscaia, M.; Osl, M.; Baumgartner, Christian; Lindner, H.; Kremser, L.; Sarb, B.; Bartsch, G.; Huck, C.W.; Bonn, G.K.; Klocker, H.

In: Journal of proteomics, Vol. 91, 2013, p. 500-514.

Research output: Contribution to journal › Article

Quantitative estimation of left ventricular myocardial perfusion based on dynamic CT scans. / Rienmüller, T.; Baumgartner, Christian; Handler, M.; Makarenko, V.; Zhorzholiani, S.T.; Krestinich, I.M.; Bockeria, L.; Ourednicek, P.; Rienmüller, R.

Proceedings BMT 2013. ., 2013. p. 651-652.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

2012

A coupled two step network-based approach to identify genes associated with breast cancer. / Netzer, M.; Fang, X.; Baumgartner, Christian.

Proc. 4th Int. Conf. on Bioinformatics, Biocomputational Systems and Biotechnologies. ., 2012. p. 1-5.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

A network-based feature selection approach to identify metabolic signatures in disease. / Netzer, M.; Kugler, K.G.; Müller, L.A.J.; Weinberger, K.M.; Baumgartner, Christian; Dehmer, M.

In: Journal of theoretical biology, Vol. 310, 2012, p. 216-222.

Research output: Contribution to journal › Article

Achieving elongated lesions employing cardiac cryoablation: a preclinical evaluation study. / Seger, M.; Fischer, G.; Handler, M.; Stöger, M.; Nowak, C.N.; Hintringer, F.; Klima, G.; Baumgartner, Christian.

In: Cryobiology, Vol. 65, 2012, p. 145-150.

Research output: Contribution to journal › Article

Applied data mining: from biomarker discovery to decision support systems. / Osl, M.; Netzer, M.; Dreiseitl, S.; Baumgartner, Christian.

Computational Medicine - Tools and Challenges. 1. ed. Springer, 2012. p. 173-184.

Research output: Chapter in Book/Report/Conference proceeding › Chapter

Bewegungsachsen des Kniegelenks in Hinblick auf die Knieendoprothetik – Ein Überblick. / Rienmüller, T.; Rienmüller, A.; Baumgartner, Christian.

Tagungsband zur ÖGBMT Jahrestagung 2012. Vol. Volume 2 Hall in Tirol : UMIT Eigenverlag, 2012. p. 41-42 (UMIT - Lecture Notes in Biomedical Computer Science and Mechatronics).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Effect of insulating layers in loop applicators for cardiac cryoablation. / Handler, M.; Fischer, G.; Seger, M.; Kienast, R.; Schütte, A.; Baumgartner, Christian.

Proc. 4th Int. Conf. on Bioinformatics, Biocomputational Systems and Biotechnologies. ., 2012. p. 20-25.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Effects of pooling samples on the performance of classifiers: A comparative study. / Kusunmano, K.; Netzer, M.; Baumgartner, Christian; Dehmer, M.; Liedl, K.R.; Graber, A.

In: The Scientific World Journal , 2012, p. 278352-278352.

Research output: Contribution to journal › Article

Hypothermal effects on chicken cardiomyocytes in vitro: a proof of concept study. / Kienast, R.; Stöger, M.; Handler, M.; Hintringer, F.; Fischer, G.; Baumgartner, Christian.

Tagungsband zur ÖGBMT Jahrestagung 2012. Vol. Volume 2 Hall in Tirol : UMIT Eigenverlag, 2012. p. 11-12 (UMIT - Lecture Notes in Biomedical Computer Science and Mechatronics).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Letter to the Editor with respect to the article by Tormos et al. / Fischer, G.; Handler, M.; Kienast, R.; Baumgartner, Christian.

In: Medical engineering & physics, Vol. 34, 2012, p. 795-795.

Research output: Contribution to journal › Article

Measurement of electrophysiological changes during cryo catheter ablation in the heart of domestic pig: A proof of concept study. / Kienast, R.; Handler, M.; Stöger, M.; Hintringer, F.; Fischer, G.; Baumgartner, Christian.

Conf. Proc. 8th Int. Meeting on Substrate-Integrated Microelectrode Arrays. Reutlingen : NMI Natural and Medical Sciences Institute at the University of Tuebingen, 2012. p. 149-153.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Methoden für die Suche metabolischer Biomarker – ein Update. / Netzer, M.; Baumgartner, Christian.

Tagungsband zur ÖGBMT Jahrestagung 2012. Vol. Volume 2 Hall in Tirol : UMIT Eigenverlag, 2012. p. 51-53 (UMIT - Lecture Notes in Biomedical Computer Science and Mechatronics).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

MUMAL: Multivariate analysis in shotgun proteomics using machine learning techniques. / Cerqueira, F.R.;

Ferreira, R.S.; Oliveira, A.P.; Gomes, A.P.; Ramos, H.J.O.; Graber, A.; Baumgartner, Christian.

In: BMC genomics , Vol. 13, No. Suppl 5, 2012, p. S4-S4.

Research output: Contribution to journal › Article

OmicsMiner: A biological data mining framework. / Netzer, M.; Lee, I.H.; Handler, M.; Manickam, V.A.; Baumgartner, Christian; Lushington, G.H.; Visvanathan, M.; Zhou, Zhengou.

In: Journal of Data Mining in Genomics & Proteomics , Vol. 3, No. 2, 2012, p. 115-115.

Research output: Contribution to journal › Article

Simulation des Temperaturfeldes und relevanter Parameter für kardiale Kryoablation mit kreisförmigem Katheter. / Seger, M.; Handler, M.; Fischer, G.; Rabl, H.; Hintringer, F.; Baumgartner, Christian.

Tagungsband zur ÖGBMT Jahrestagung 2012. Vol. Volume 2 ., 2012. p. 35-36 (UMIT - Lecture Notes in Biomedical Computer Science and Mechatronics).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Simulation des Temperaturprofils bei kardialer Kryoablation mittels Tip-Applikator – Parameteranpassung und Validierung durch in-vivo Daten. / Handler, M.; Fischer, G.; Seger, M.; Kienast, R.; Hintringer, F.; Baumgartner, Christian.

Tagungsband zur ÖGBMT Jahrestagung 2012. Vol. Volume 2 Hall in Tirol : UMIT Eigenverlag, 2012. p. 37-38 (UMIT - Lecture Notes in Biomedical Computer Science and Mechatronics).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution

Von der Grundlagenforschung bis zum High Tech Medizinprodukt: Am Beispiel des Projektes Kryotipkatheter. /

Baumgartner, Christian; Kienast, R.; Handler, M.; Stöger, M.; Fischer, G.

Tagungsband zur Wissenschaftsenquete des Landes Tirol. Innsbruck : Land Tirol, 2012. p. 1-8.

Research output: [Chapter in Book/Report/Conference proceeding](#) > [Conference contribution](#)

2011

Alles bio(technisch). / Baumgartner, Christian.

In: CliniCum - Magazin für moderne Krankenhausführung, 15.05.2011, p. 30-31.

Research output: [Contribution to specialist publication](#) > [Article](#)

A workflow for preprocessing and proteomic biomarker identification on mass-spectrometry data. / Handler, M.;

Pallua, J.D.; Schäfer, G.; Netzer, M.; Osl, M.; Seger, M.; Pfeifer, B.; Becker, M.; Meding, S.; Rauser, S.; Walch, A.;

Klocker, H.; Bartsch, G.; Huck, C.W.; Baumgartner, Christian; Bonn, G.K.

Proc. 8th IASTED International Conference on Biomedical Engineering. Calgary : Acta Press, 2011. p. 181-187.

Research output: [Chapter in Book/Report/Conference proceeding](#) > [Conference contribution](#)

Assessment of cardiac resynchronization therapy by non-invasive reconstruction of cardiac activation times. /

Seger, M.; Netzer, M.; Hanser, F.; Pfeifer, B.; Dichtl, W.; Stühlinger, M.; Trieb, T.; Hintringer, F.; Pachinger, O.;

Baumgartner, Christian; Berger, T.

Proc. 8th IASTED International Conference on Biomedical Engineering. c : Acta Press, 2011. p. 283-288.

Research output: [Chapter in Book/Report/Conference proceeding](#) > [Conference contribution](#)

Bioinformatic-driven search for metabolic biomarkers in disease. / Baumgartner, Christian; Osl, M.; Netzer, M.;

Baumgartner, D.

In: Journal of clinical bioinformatics, Vol. 1, No. 2, 2011, p. 1-10.

Research output: [Contribution to journal](#) > [Article](#)

Data integration on biomedical data using semantic web technologies. / Kienast, R.; Baumgartner, Christian.

Bioinformatics - Trends and Methodologies. 1. ed. Rijeka : InTech, 2011. p. 57-82.

Research output: [Chapter in Book/Report/Conference proceeding](#) > [Chapter](#)

KD3: Knowledge Discovery in Database Design tool for workflow-based exploration of biomedical data sets. /

Dander, A.; Handler, M.; Netzer, M.; Pfeifer, B.; Seger, M.; Baumgartner, Christian.

Transactions on Large-Scale Data- and Knowledge-Centered Systems IV. Vol. 6990 1. ed. Berlin Heidelberg : Springer, 2011. p. 148-157 (Lecture Notes in Computer Science).

Research output: [Chapter in Book/Report/Conference proceeding](#) > [Chapter](#)

Machine learning approach for evaluating identifications of peptides and proteins in complex mixtures. /

Cerqueira, F.R.; Ferreira, R.S.; Oliveira, A.P.; Ramos, H.J.O.; Baumgartner, Christian.

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Research output: [Chapter in Book/Report/Conference proceeding](#) > [Conference contribution](#)

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