



BIOMEDICAL IMAGING CENTER

2020 - Articles in conferences

N°	Title of the presentation	Event	Authors	Type of presentation	Country	Date	Link
1	Optimising Criteria for Manual Smear Review Following Automated Blood Count Analysis: A Machine Learning Approach.	Proceedings of the 11th International Conference on Innovations in Bio-Inspired Computing and Applications. IBICA 2020.	Marta Avalos, Hélène Touchais, Marcela Henríquez-Henríquez.	Conference	Chile	16-12-2020	http://www.mirlabs.org/ibica20/
2	Optimising Criteria for Manual Smear Review Following Automated Blood Count Analysis: A Machine Learning Approach.	WICT 2020: The 10th World Congress on Information and Communication Technologies. Online.	M Avalos, H touchais, M Henríquez-Henríquez.	Conference	United Kingdom	16-12-2020	https://www.guide2research.com/conference/wict-2020-the-10th-world-congress-on-information-and-communication-technologies
3	Vorticity and circulation: new advances in 4D-flow MRI - Discussion.	European Association of Cardiovascular Imaging. Best of Imaging 2020.	Sergio Uribe	Seminar	France	11-12-2020	https://www.escardio.org/Congresses-&-Events/EACVI-Congress
4	A decision-making tool to fine-tune abnormal levels in the complete blood count tests.	ML4H: Machine Learning for Health Workshop at NeurIPS 2020 - Virtual Conference.	M Avalos, H touchais, M Henríquez-Henríquez.	Conference	Canada	11-12-2020	https://ml4health.github.io/2020/
5	Left atrial remodeling associated with increased vascular cell adhesion molecule 1 (VCAM-1).	LVI Congreso Chileno de Cardiología y Cirugía Cardiovascular.	Jorge Fernández, Julián Vega, Aaron Paredes, Sebastián Herrera, Mario Chiong, Felipe Contreras, Maria Paz Ocaranza, Jorge Jalil, Manuel Salinas, Pablo Castro, Luigi Gabrielli.	Conference	Chile	02-12-2020	https://sochicar.cl/images/Eventos/2020/diciembre/ProgramaCongreso202017.pdf
6	Method for predicting coronary fractional flow reserve (FFR) using artificial intelligence.	LVI Congreso Chileno de Cardiología y Cirugía Cardiovascular.	G. Martínez, C. Hormazábal, A. Gago-Arias, P. Caprile.	Oral presentation	Chile	02-12-2020	https://sochicar.cl/images/Eventos/2020/diciembre/ProgramaCongreso202017.pdf

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7	Estimación de la presurización del lumen falso en la disección aórtica tipo B mediante resonancia magnética del flujo 4D: predicción y comprensión del crecimiento de la disección.	LVI Congreso Chileno de Cardiología y Cirugía Cardiovascular.	Julio Sotelo, David Marlevi, Ross Grogan-Kaylor, Sergio Uribe, Himanshu J. Patel, Elazer R. Edelman, David A. Nordsletten, Nicholas Burris.	Oral presentation	Chile	02-12-2020	https://sochicar.cl/images/Eventos/2020/diciembre/ProgramaCongreso202017.pdf
8	Impacto de la curvatura del arco aórtico en la hemodinámica del flujo en pacientes con transposición de las grandes arterias tras operación de switch arterial.	LVI Congreso Chileno de Cardiología y Cirugía Cardiovascular.	Julio Sotelo, Israel Valverde, Duarte Martins, Damien Bonnet, Nathalie Boddaert, Kuberan Pushparajan, Sergio Uribe, Francesca Raimondi.	Oral presentation	Chile	02-12-2020	https://sochicar.cl/images/Eventos/2020/diciembre/ProgramaCongreso202017.pdf
9	Circulación tridimensional, un biomarcador novedoso para caracterizar pacientes con valvula aortica bicuspide, a partir del uso de datos de flujo obtenidos por resonancia magnetica.	LVI Congreso Chileno de Cardiología y Cirugía Cardiovascular.	Julio Sotelo, Malenka M. Bissell, Yaxin Jian, Hernán Mella, Joaquín Mura, Sergio Uribe.	Oral presentation	Chile	02-12-2020	https://sochicar.cl/images/Eventos/2020/diciembre/ProgramaCongreso202017.pdf
10	Spinal cord neurovascular response using non-invasive near infrared spectroscopy in humans.	LXXV Congreso Chileno de Neurología, Psiquiatría, Neurocirugía 2020. SONEPSYN.	Caulier Cisterna, R., González L., González Appलगren, JP., Esteban Oyarzún, JE., Uribe S., Eblen Zajjur, A.	Conference	Chile	21-11-2020	https://www.sonepsyn2020.cl/#lct=entrance
11	Experiencia en NMR fuera del cerebro.	Curso internacional de Espectroscopia por Resonancia magnética de Cerebro - Online.	Aline Xavier	Seminar	Argentina	16-11-2020	https://www.facebook.com/watch/?v=867639440661408
12	On advances in a virtual patient.	Third annual meeting World Laureates Forum.	Daniel Hurtado	Conference	China	30-10-2020	https://en.wlaforum.com/
13	Implementation and numerical validation of a 2-variable mechanical-damage model for collagen-fiber reinforced soft-tissues.	Congreso de Biomecánica y Biomateriales 2020.	A. Bezmalinovic, C. García-Herrera, et al.	Seminar	Chile	29-10-2020	https://cbio2020.usach.cl/
14	Cardiovascular Biomarkers: Applications using finite element methods and cardiovascular magnetic resonance.	Congreso de Biomecánica y Biomateriales 2020.	Julio Sotelo, Hernan Mella, Joaquín Mura, Sergio Uribe.	Oral presentation	Chile	29-10-2020	https://cbio2020.usach.cl/
15	Acerca de algunos métodos de inversión directa en Elastografía.	Congreso de Biomecánica y Biomateriales 2020.	Joaquín Mura	Oral presentation	Chile	29-10-2020	https://cbio2020.usach.cl/?page_id=596
16	Modelling and simulation of mechanical effects of fetal growth restriction on fetoplacental arteries.	Biomedical Engineering Society (BMES) Virtual Annual Meeting.	González, J., Arenas, G., Rivera, E., García-Herrera, C., Krause, B.	Digital poster	USA	17-10-2020	http://submissions.mirasmart.com/SecureView/BMESArchive/radeuljl3ou.pdf

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17	Fatty acids and cholesterol peaks found in MRS are biomarkers of Niemann-Pick C disease diagnosis.	ESMRMB Congress 2020 - Online.	Aline Xavier, Flavia C Zacconi, J E Oyarzún, Silvana Zanlungo, Marcelo E Andia.	Conference	Austria	30-09-2020	https://www.esmrmb.org/congress/past-meetings-old/congress2020/
18	The use of magnetic resonance spectroscopy and principal component analysis in order to identify the progression of NAFLD.	ESMRMB Congress 2020 - Online.	Aline Xavier, Flavia C Zacconi, Constanza Gainza, Daniel Cabrera, Marco Arrese, Sergio Uribe, Marcelo E Andia.	Conference	Austria	30-09-2020	https://www.esmrmb.org/congress/past-meetings-old/congress2020/
19	Is MIS-C a form of KD?	IKDR VIRTUAL MEETING (Hosted by St. Justine's University Hospital Center, Montreal, Canada).	Guillermo Larios	Chair	Canada	26-09-2020	https://event.fourwaves.com/49598086-d2b9-4b42-a307-8b23c5533988/pages/4d9579dd-1bcc-4de8-b96e-7e20e30895c2
20	Using diffusion MRI for the observation of Intra-Voxel Incoherent Motion (IVIM): sampling strategies and parameters fitting.	IEEE SPS Summer School on Biomedical Signal and Image Processing.	Stéren Chabert	Conference	Chile	25-09-2020	https://fi.udec.cl/eventos/ieee-sps-summer-school-on-biomedical-signal-and-image-processing-chile-2020/
21	Liver Dixon MR Fingerprinting: T1, T2, T2* and fat fraction tissue characterization.	Proceedings 28th International Conference of the ISMRM & SMRT. Virtual Conference & Exhibition.	O Jaubert, C Arrieta, G Cruz, A Bustin, T Schneider, G Georgiopoulos, P-G Masci, C Sing-Long, R Botnar, C Prieto.	Oral presentation	France	08-08-2020	https://cde.ismrm.org/protected/20MPresentations/videos/dcvz/0870.htm
22	Validation of a water and fat separation framework for Liver MR Fingerprinting.	Proceedings 28th International Conference of the ISMRM & SMRT. Virtual Conference & Exhibition.	Cristobal Arrieta, Olivier Jaubert, Gastao Cruz, Sergio Uribe, Rene M Botnar, Claudia Prieto, and Carlos Sing-Long.	Digital poster	France	08-08-2020	https://cde.ismrm.org/protected/20MPresentations/videos/dcvz/3753.htm
23	QSM streaking suppression with L1 data fidelity terms.	ISMRM 28th Annual Meeting & Exhibition. Virtual Conference.	C. Milovic, M. Lambert, C. Langkammer, K. Bredies, C. Tejos, P. Irarrazaval.	Digital poster	Australia	08-08-2020	https://archive.ismrm.org/2020/3257.html
24	Longitudinal study of quantitative susceptibility mapping in patients with the first episode of psychosis.	ISMRM 28th Annual Meeting & Exhibition. Virtual Conference.	M. Garcia, N. Muñoz, C. Milovic, L.M. Alliende, B. Iruretagoyena, A. Gonzalez, J. Acosta-Carbonero, C. Montalba, N. Crossley, S. Uribe, C. Tejos.	Oral presentation	Australia	08-08-2020	https://www.ismrm.org/20/program_files/O06.htm

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25	Realistic MRI phantom for T2 and Quantitative Susceptibility Mapping.	ISMRM 28th Annual Meeting & Exhibition. Virtual Conference.	M. Chapa, F. Zacconi, C. Milovic C. Tejos.	Digital poster	Australia	08-08-2020	https://archive.ismrm.org/2020/4270.html
26	Hybrid Data fidelity term approach for Quantitative Susceptibility Mapping.	Proceedings 28th International Conference of the ISMRM & SMRT. Virtual Conference & Exhibition.	M. Lambert, C. Milovic, C. Tejos.	Digital poster	Australia	08-08-2020	https://archive.ismrm.org/2020/3205.html
27	Attention Scale Recurrent Network for Under-Sampled MRI Reconstruction #3180.	ISMRM 28th Annual Meeting & Exhibition. Virtual Conference.	Gabriel della Maggiora, Alberto Di Biase, Carlos Castillo Passi, and Pablo Irarrazaval.	Digital poster	Australia	08-08-2020	http://archive.ismrm.org/2020/3598.html
28	Beyond SPAMM-PAV: a Phase Complementary SPAMM (PCSPAMM) acquisition to quantify simultaneously tissue motion and flow velocity.	ISMRM 28th Annual Meeting & Exhibition. Virtual Conference.	Hernán Mella, Julio Sotelo, Sergio Uribe.	Digital poster	Australia	08-08-2020	https://archive.ismrm.org/2020/2188.html
29	Toolbox for spin-level MRI simulations: an application to cardiac diffusion #4967.	ISMRM 28th Annual Meeting & Exhibition. Virtual Conference.	Carlos Castillo Passi, Gabriel della Maggiora, and Pablo Irarrazaval.	Digital poster	Australia	08-08-2020	http://archive.ismrm.org/2020/4437.html
30	Anomalous Diffusion estimation through the solution of the Fractional-Time order Bloch-Torrey equation #442.	ISMRM 28th Annual Meeting & Exhibition. Virtual Conference.	Óscar Peña-Nogales, Carlos Castillo Passi, Carlos Lizama, Rodrigo de Luis-Garcia, Santiago Aja-Fernández, Pablo Irarrazaval.	Digital poster	Australia	08-08-2020	http://archive.ismrm.org/2020/4398.html
31	Reducing off-resonance effects by spatial decorrelation in Magnetic Resonance Fingerprinting.	ISMRM & SMRT. Virtual Conference & Exhibition.	Ronal Manuel Coronado, Gastão Lima da Cruz, Claudia Prieto, and Pablo Irarrazaval.	Digital poster	Australia	08-08-2020	https://www.ismrm.org/20/program/files/DP09-07.htm
32	A novel, accurate and robust three-dimensional quantification of circulation using finite- element methods in 4D Flow MRI data of thoracic aorta.	ISMRM 28th Annual Meeting & Exhibition. Virtual Conference.	Julio Sotelo, Malenka M Bissell, Yaxin Jiang, Hernan Mella, Joaquin Mura, Sergio Uribe.	Digital poster	Australia	08-08-2020	https://archive.ismrm.org/2020/2278.html
33	Left Ventricular Reverse Remodeling in Dilated Cardiomyopathy: Does Ejection Fraction Reflect Subtle Ventricular Dysfunction?	ISMRM 28th Annual Meeting & Exhibition. Virtual Conference.	Pamela Franco, Julio Sotelo, Bram Ruijsink, David Nordsletten, Eric Kerfoot, Joaquin Mura, Sergio Uribe.	Digital poster	Australia	08-08-2020	https://archive.ismrm.org/2020/2109.html
34	Evaluation of different diffusivity and cognitive measures in subcortical regions in healthy subjects and RRMS patients.	ISMRM 28th Annual Meeting & Exhibition. Virtual Conference.	Cristián Montalba	Digital poster	Australia	08-08-2020	https://www.ismrm.org/20/program/files/DP01-01.htm

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35	Pasado, presente y futuro de las imágenes en cáncer de próstata avanzado.	CURSO Cáncer de Próstata Avanzado: Novedades en Diagnóstico y Tratamiento.	Cecilia Besa	Conference	Chile	27-07-2020	https://educacioncontinua.uc.cl/pdf/1s-IdJALAL-eHeKprograma_cancer_prostata_11062020_FINAL.pdf
36	Correlation of fMRI with direct electrical stimulation in patients with left side brain gliomas.	Human Brain Mapping Annual Conference, Virtual Meeting.	Chabert, Veloz, Tapia, Torres, Riveros, Gongora, Gonzalez, Bennett.	Conference	Chile	23-06-2020	https://www.humanbrainmapping.org/i4a/pages/index.cfm?pageid=3299
37	Evaluation of three fMRI language protocols in presurgical patients from a public hospital in Chile.	Human Brain Mapping Annual Conference, Virtual Meeting.	Chabert, Veloz, Aguilera, Avila, Contreras, Henriquez, Jara, Medina, Orostizaga, Tapia, Torres, Riveros, Gongora, Gonzalez, Bennett.	Conference	Chile	23-06-2020	https://www.humanbrainmapping.org/i4a/pages/index.cfm?pageid=3299
38	Modelamiento y análisis de estrategias de mitigación para el brote COVID-19 en Chile. II webinar dedicado al modelamiento del COVID-19 en Chile.	Desafíos para modelar y predecir la Epidemia de COVID-19 en Chile - II.	Héctor Ramírez, Pedro Gajardo, Carla Castillo, Axel Osses, Rodrigo Lecaros, Taco de Wolff.	Seminar	Chile	18-06-2020	http://www.cmm.uchile.cl/wp-content/uploads/2020/06/PROGRAMA_2doWebinar_Modelos_COVID_Chile.pdf.pdf
39	Relevance of cortical and subcortical integrity in cognitive performance in Relapsing-Remitting Multiple Sclerosis patients.	50th São Paulo Radiology Conference 2020.	Cristián Montalba	Oral presentation	Brasil	27-05-2020	https://jpr2020.org.br/
40	Desafíos para modelar y predecir la Epidemia de COVID-19 en Chile. I webinar dedicado al modelamiento del COVID-19.	Modelamiento y análisis de estrategias de mitigación para el brote COVID-19 en Chile.	Axel Osses	Seminar	Chile	16-04-2020	http://covid-19.cmm.uchile.cl/covid-19/
41	Master lecture: Reconstruction, uncertainty and biomedical imaging.	Electricity-Electronics Congress, Ingelectra XXVIII. Online.	Carlos Sing-Long	Oral presentation	Chile	01-04-2020	https://iee-uchile.github.io/ingelectra2019/#/
42	3D printed valve models replicate in vivo bicuspid aortic valve peak pressure drops.	Annual meeting of the American College of Cardiology (ACC). 2020. Virtual Meeting.	Gill H, Fernandes J, Bissell M, Wang S, Sotelo J, Urbina J, et al.	Conference	Chile	28-03-2020	https://cslide-us.ctimeetingtech.com/acc2020_eposter/attendee/eposter/poster/3503
43	Extensions of Real Atomic Gauges for Complex Signal Recovery.	ACMS Applied Math Seminar, Department of Applied and Computational Mathematics and Statistics, University of Notre Dame, Notre Dame, IN.	Carlos Sing-Long	Seminar	USA	20-02-2020	https://acms.nd.edu/events/calendar/applied-math-seminar/
44	An Extension of Real Atomic Gauges for Complex Signal Recovery.	Inverse Problems and Imaging Seminar, University of Chicago, Chicago, IL.	Carlos Sing-Long	Seminar	USA	20-02-2020	

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45	Introduction to the SCMR/ISMRM Co-provided Workshop 2020.	23rd Annual Scientific Sessions of the Society for Cardiovascular Magnetic Resonance (SCMR).	Sergio Uribe	Program Co-Chair	USA	12-02-2020	https://www.eventscribe.com/2020/SCMR/aaStatic.asp?SFP=VFIWR1FOTUhAMj15Ng
46	Mathematical modeling of light-sheet fluorescence microscopy.	Seminar University Gröningen.	Axel Osses	Seminar	Netherlands	30-01-2020	https://www.rug.nl/research/som-ri/events-publications/events/seminars-eef