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Education

Year	Degree	Field	Institution
1996 - 2002	Eng. Diploma	Chemical Engineering	Aristotle University of Thessaloniki
2004 - 2006	M.Sc.	Process Design (Food Technology)	Wageningen University, Netherlands
2006 - 2010	Ph.D.	Chemical Engineering and Biotechnology	Cambridge University, UK

Research Experience and Internships

2009	Internship, Microsoft Research Centre, Cambridge, UK
2010 - 2011	Postdoctoral Research Fellowship, NYU School of Medicine, Skirball Institute of Biomolecular Medicine
2011 - 2014	Postdoctoral Research Fellowship, NYU School of Medicine, Department of Radiology

Academic Appointments

2015 -	Assistant Professor (Research) of Radiology, NYU School of Medicine
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Awards and Honors

2008	Fitzwilliam College Graduate Scholarship
2009	Fitzwilliam Trust Research Fund
2009	Young investigator award at the 10th International Conference on Magnetic Resonance Microscopy (2009 ICMRM)
2011-2013	Trainee (Educational) Stipend for the annual ISMRM meeting
2012	Trainee (Educational) Stipend for the 21 st annual ISMRM meeting
2012	Magna Cum Laude Merit Award for the 20 th annual ISMRM meeting
2012	Magna Cum Laude Merit Award for the 20 th annual ISMRM meeting
2013	Magna Cum Laude Merit Award for the 21 st annual ISMRM meeting
2013	Summa Cum Laude Merit Award for the 21 st annual ISMRM meeting
2014	Summa Cum Laude Merit Award for the 22 nd annual ISMRM meeting

2014-2016 Distinguished Reviewer for Magnetic Resonance In Medicine

Major Committee Assignment

National Institutes of Health

2015 - Reviewer Spatial Emphasis Panel “Clinical and Translational Imaging Applications” [ZRG1 DTCS A(81)]

Technology Foundation STW Technology, The Netherlands

2015 Reviewer For the Technology Foundation STW Open Technology Program.

Professional Memberships

2010 - Present International Society for Magnetic Resonance in Medicine

2010 - Present The New York Academy of Sciences

Journals Reviewer Assignments

Ad Hoc Reviewer

2011 - NMR in Biomedicine

2011 Trends in Food Science and Technology

2012 - Magnetic Resonance in Medicine

2014 - European Radiology

2014 - Medical Physics

2014 - Abstract Reviewer for the annual meeting of the International Society for Magnetic Resonance in Medicine

2016 - Annals of Clinical and Translational Neurology

2016 - Journal of Applied Physiology

2016 - Magnetic Resonance Materials in Physics, Biology and Medicine

2017 - Clinical Therapeutics

Teaching Experience

Cambridge University Department of Chemical Engineering and Biotechnology

2006 - 2009 Engineering Mathematics, Teaching Assistant

NYU School of Medicine Department of Radiology

2016 Advanced MRI

Mentoring of Graduate Students

2010 – 2011 Gang Chen

2015 - 2016 Xuejiao Che

Prizes and Scholarships Awarded to Graduate Students

2016 ISMRM Stipend Award, Xuejiao Che

Mentoring of Medical Students

2016 Niels D Naimon

2017 William Foos

Prizes and Scholarships Awarded to Medical Students

2016 NIDDK T35 Short Term Research Grant, Niels D Naimon

2017 NIDDK T35 Short Term Research Grant, William Foos

Mentoring of Postdoctoral Fellows

2015 - Oleskandr Khagai, Ph.D.

Prizes and Scholarships Awarded to Postdoctoral Fellows

2016 In Vivo Magentic Resonance Gordon Conference Outstanding Contribution Award
Oleksandr Khagai, Ph.D.

2017 Trainee (Educational) Stipend for the annual ISMRM meeting, Oleksandr Khagai, Ph.D.

2017 Magna Cum Laude Merit Award for the 25th annual ISMRM meeting, Oleksandr Khagai,
Ph.D.

Research Funding

Current

Role: **Principal-Investigator**: Multinuclear MRI Assessment of Diabetic Peripheral Neuropathy.

R01DK106292-01, NIH/NIDDK, 07/1/15 – 4/30/19.

Total direct costs: \$1,015,335.

Role: **Principal-Investigator**: Multinuclear Upgrade for Biograph mMR System.

S10OD021772, NIH, 02/1/17 – 1/31/18.

Total direct costs: \$217,500.

Role: **Principal-Investigator**: Mitochondrial Function Impairment in Alzheimer's Disease: A Target for Modifying Disease Course

1UL1TR001445, NIH/NCATS, 02/1/17 – 1/31/18.

Total direct costs: \$35,000.

Role: **Co-Investigator**: Assessment of Cartilage Repair with Sodium MRI at 3T. R01AR067156 (PI: R.R. Regatte), NIH/NIAMS, 02/16/15 – 11/30/19.

Total direct costs: \$1,525,775.

Completed

Role: **Co-Investigator**: Cartilage, Bone and Marrow Interactions in Knee OA. R01AR050260

(PI: R.R. Regatte), NIH/NIAMS, 07/15/10 – 4/30/15.

Total direct costs: \$1,549,775.

Role: **Postdoctoral Fellow**: Molecular UBM and MRI of Vascular Development. R01HL078665

(PI: D.H. Turnbull), NIH/NHLBI, 09/22/04 – 11/30/13.

Total direct costs: \$2,065,267.

Role: **Postdoctoral Fellow**: MRI Tracking of Stem Cell Migration During Brain Injury.

R21NS066490 (PI: D.H. Turnbull), NIH/NINDS, 02/01/10 – 01/31/12.

Total direct costs: \$271,710.

PhD Studentship from the Biotechnology and Biological Sciences Research Council.
BBS/S/N/2006/13149. 10/2/06 – 10/1/09.

Total direct costs: \$92,566.

Contribution at Society Meetings

2017 Moderator of the Session on Non-Proton MRI and MRS, ISMRM

Invited Lectures

2014 Mount Sinai School of Medicine and the Translational & Molecular Imaging
Institute Seminar Series, “Multinuclear MRI For Musculoskeletal Applications”

Committees

2014 - Shared Instrumentation Grant Strategy Committee, New York University Center
for Biomedical Imaging

2016 - Radiochemistry Roadmap and Synchronization Committee, New York University
Center for Biomedical Imaging

Bibliography

Peer Reviewed Articles

1. **Parasoglou P**, Sederman AJ, Rasburn J, Powell H, Johns ML. Optimal k-space sampling for single point imaging of transient systems. *J Magn Reson* 2008; 194 (1): 99-107.
2. **Parasoglou P**, Sederman AJ, Rasburn J, Powel H, Johns ML. Optimal k-space sampling for single point imaging of transient systems. *Diffus Fundam* 2009; 10 (13): 1-3.
3. **Parasoglou P**, Malioutov D, Sederman A J, Rasburn J, Powell H, Gladden LF, Blake A, Johns ML. Quantitative single point imaging with compressed sensing. *J Magn Reson* 2009; 201(1): 72-80.
4. **Parasoglou P**, Parrott EPJ, Zeitler JA, Rasburn J, Powel H, Gladden LF, Johns, ML. Quantitative water content measurements in food wafers using terahertz radiation. *Terahertz Sci and Technol* 2010; 3(4): 172-182 (invited paper).
5. Berrios-Otero CA, Nieman BJ, **Parasoglou P**, Turnbull DH. In utero phenotyping of mouse embryonic vasculature with MRI. *Magn Reson Med* 2012; 67(1): 251-257.
6. **Parasoglou P**, Feng L, Xia D, Otazo R, Regatte RR. Rapid 3D-Imaging of Phosphocreatine Recovery Kinetics in the Human Lower Leg Muscles with Compressed Sensing. *Magn Reson Med* 2012; 68(6): 1738–1746.
7. **Parasoglou P**, Berrios-Otero CA, Nieman BJ, Turnbull DH. High resolution MRI of early stage mouse embryos. *NMR Biomed* 2013; 26(2): 224-231.

8. **Parasoglou P**, Xia D, Chang G, Regatte RR. Dynamic Imaging of Phosphocreatine Recovery Kinetics in the Human Lower Leg Muscles at 3T and 7T: A preliminary Study. *NMR Biomed* 2013; 26(3): 348-356.
9. **Parasoglou P**, Xia D, Regatte RR. Spectrally selective 3D TSE imaging of phosphocreatine in the human calf muscle at 3 T. *Magn Reson Med* 2013; 69(3): 812-817.
10. **Parasoglou P**, Xia D, Chang G, Regatte RR. 3D-Mapping of Phosphocreatine Concentration in the Human Calf Muscle at 7T: Comparison to 3T. *Magn Reson Med* 2013; 70(6): 1616-1625.
11. **Parasoglou P**, Xia D, Chang G, Convit A, Regatte RR. Three-dimensional mapping of the creatine kinase enzyme reaction rate in muscles of the lower leg. *NMR Biomed* 2013; 26(9): 1141-1151.
12. Lee JS, **Parasoglou P**, Xia D, Jerschow A, Regatte RR. Uniform magnetization transfer chemical exchange saturation transfer magnetic resonance imaging. *Scientific Reports* 2013, 3 (1707).

Lee JS, **Parasoglou P**, Xia D, Jerschow A, Regatte RR. Erratum: Uniform magnetization transfer chemical exchange saturation transfer magnetic resonance imaging. *Scientific Reports* 2013, 3 (1707).
13. **Parasoglou P**, Xia D, Chang G, Regatte RR. Three-dimensional Saturation Transfer ³¹P-MRI in Muscles of the Lower Leg at 3.0 T. *Scientific Reports* 2014, 4 (5219).
14. **Parasoglou P**, Xia D, Regatte RR. The Feasibility of Mapping Unidirectional Pi-to-ATP Fluxes in Muscles of the Lower Leg at 7.0 T. *Magn Reson Med* 2015; 74(1): 225-230.
15. Brown R, Lakshmanan K, Madelin G, **Parasoglou P**. A Nested Phosphorus and Proton Coil Array for Brain Magnetic Resonance Imaging and Spectroscopy. *Neuroimage* 2016; 124: 602-611.
16. Brown R, Khagai O, **Parasoglou P**. Magnetic Resonance of Phosphocreatine and BOLD Kinetics in the Lower Extremity with a Dual-Frequency Coil Array. *Scientific Reports* 2016, 6 (30568).
17. Naimon ND*, Walczyk J, Babb JS, Khagai O, Che X, Alon L, Regatte RR, Brown R, **Parasoglou P**. A Low Cost MR Compatible Ergometer to Assess Post-Exercise Phosphocreatine Recovery Kinetics. *Magnetic Resonance Materials in Physics, Biology and Medicine* (DOI 10.1007/s10334-016-0605-9).
18. Khagai O*, Madelin G, Brown R, **Parasoglou P**. Dynamic phosphocreatine imaging and pH assessment of the human lower leg muscle during exercise at 3T. *Magn Reson Med* (in press).
19. **Parasoglou P.**, Rao S, Slade JM. Declining skeletal muscle function in diabetic peripheral neuropathy. *Clin Ther* (in press).

* **Published by a student, or fellow under the direct supervision of P. Parasoglou**

Book Chapters

Lee JS, Xia D, **Parasoglou P**, Jerschow A, Regatte RR. Chemical Exchange Saturation Transfer Contrast by Glycosaminoglycan and its Application for Monitoring Knee Joint Repair, in;"Advanced Quantitative Imaging of Knee Joint Repair" (RR Regatte Ed), World Scientific Publishing Company, May 2014

Peer Reviewed Conference Abstracts

1. Keesman KJ, **Parasoglou P**, Vries D (2006), Modelling of water disinfection process in annular photoreactor: Conference Proceedings Volume I. - Kuwait : Kuwait Institute for Scientific Research, - p. 131 - 141.4th Euro-Arab Environment Conference & Exhibition, Kuwait.
2. **Parasoglou P**, Sankey MH, Rasburn J, Powell, Johns ML (2007), MRI studies of moisture absorption by food wafers, Proceedings of the 9th International Conference on Magnetic Resonance Microscopy, Aachen, Germany.
3. **Parasoglou P**, Sederman AJ, Rasburn J, Powel H, Johns ML (2008), Optimal k-space sampling for single point imaging of transient systems, Proceedings of the 9th International Bologna Conference of Magnetic Resonance in Porous Media. Cambridge, Massachusetts, USA.
4. **Parasoglou P**, Malioutov D, Sederman AJ, Rasburn J, Powell H, Gladden LF, Blake A, Johns ML (2009). Accurate reconstruction of under-sampled images with compressed sensing and dynamic filtering, Proceedings of the 10th International Conference on Magnetic Resonance Microscopy, West Yellowstone, Montana, USA.
5. **Parasoglou P**, Parrott EPJ, Zeitler JA, Rasburn J, Powel H, Gladden LF, Johns ML (2009). Quantitative moisture content detection in food wafers. Proceedings of the 34th International conference on Infrared, Millimeter and Terahertz Waves. IRMMW-THz, Busan, Korea.
6. **Parasoglou P**, Berrios-Otero CA, Nieman BJ, Turnbull DH (2010). In utero imaging of vascular development in the mouse. Gordon Research Conferences, In Vivo Magnetic Resonance, Andhover, NH, USA.
7. **Parasoglou P**, Rodriguez JJ, Berrios-Otero CA, Nieman BJ, Turnbull DH (2011). In vivo MRI of cell migration towards QA induced lesions in the mouse brain. Proceedings of the 19th ISMRM Scientific Meeting & Exhibition, Montreal, Canada.
8. **Parasoglou P**, Berrios-Otero CA, Nieman BJ, Turnbull DH (2011). In utero imaging of the early mouse embryo. Proceedings of the 19th ISMRM Scientific Meeting & Exhibition, Montreal, Canada.
9. **Parasoglou P**, Xia D, Chang G, Regatte RR (2012). Spectrally selective 3D imaging of phosphocreatine in the human calf muscle at 3T and 7T. Proceedings of the 20th ISMRM Scientific Meeting & Exhibition, Melbourne, Australia.

10. **Parasoglou P**, Xia D, Chang G, Regatte RR (2012). Dynamic 3D imaging of phosphocreatine recovery at 3T and 7T. Proceedings of the 20th ISMRM Scientific Meeting & Exhibition, Melbourne, Australia.
11. **Parasoglou P**, Xia, D, Regatte RR (2012). Spectrally selective 3D-TSE imaging of phosphocreatine in the human calf muscle at 3T. Proceedings of the 20th ISMRM Scientific Meeting & Exhibition, Melbourne, Australia.
12. Lee JS, **Parasoglou P**, Xia D, Regatte RR, Jerschow A (2012). MT-independent CEST Measurements via Two-frequency CEST. Proceeding of the 3rd International Workshop on Chemical Exchange Saturation Transfer Imaging, Annapolis, MD, USA.
13. Lee JS, **Parasoglou P**, Xia D, Regatte RR, Jerschow A (2012). Uniform-MT CEST methodology. 53rd Experimental Nuclear Magnetic Resonance Conference, Miami, Florida, USA.
14. Lee JS, **Parasoglou P**, Xia D, Jerschow A, Regatte RR (2013). Uniform-MT CEST to isolate gagCEST contrast from asymmetric MT effects: First in vivo study on human knees at 7 T. Proceedings of the 21st ISMRM Scientific Meeting & Exhibition, Salt Lake City, Utah, USA.
15. Xia D, **Parasoglou P**, Chang G, Convit A, Regatte RR (2013). 3D mapping of creatine kinase reaction rates and metabolic fluxes in the human calf muscle at 3T. Proceedings of the 21st ISMRM Scientific Meeting & Exhibition, Salt Lake City, Utah, USA.
16. **Parasoglou P**, Xia D, Chang G, Convit A, Regatte RR (2013). Three-dimensional mapping of the creatine kinase enzyme reaction rate in muscles of the lower leg. Proceedings of the 21st ISMRM Scientific Meeting & Exhibition, Salt Lake City, Utah, USA.
17. **Parasoglou P**, Feng L, Xia D, Otazo R, Regatte RR (2013). Three Dimensional Mapping of Oxidative Capacity in Human Lower Leg Muscles with Compressed Sensing 31P-MRI. Proceedings of the 21st ISMRM Scientific Meeting & Exhibition, Salt Lake City, Utah, USA.
18. **Parasoglou P**, Lee JS, Xia D, Chang, G, Jerschow A, Regatte RR (2013). Isolating CEST and MT in the Human Calf Muscle at 7T. Proceedings of the 21st ISMRM Scientific Meeting & Exhibition, Salt Lake City, Utah, USA.
19. **Parasoglou P**, Xia D, Chang, G, Regatte RR (2014). Mapping the Creatine Kinase Reaction Rate in Muscles of the Lower Leg Using Progressive Saturation 31P-MRI at 3.0T. Proceedings of the 22nd ISMRM Scientific Meeting & Exhibition, Milan, Italy.]
20. **Parasoglou P**, Xia D, Regatte RR (2014). Mapping the Unidirectional Pi-to-ATP Fluxes in Muscles of the Lower Leg By Using Progressive Saturation 31P-MRI with PCr Suppression at 7.0T. Proceedings of the 22nd ISMRM Scientific Meeting & Exhibition, Milan, Italy
21. Adegbite O, **Parasoglou P**, Lee JS, Xia D, Regatte RR (2015). In vivo measurement of free creatine and phosphocreatine kinetics in lower leg muscle. Proceedings of the 23rd ISMRM Scientific Meeting & Exhibition, Toronto, Canada

22. Baete S, Raya J, Knoll F, Cho GY, **Parasoglou P**, Brown R, Block T, Otazo R, Bencardino J, Sigmund E (2015). Feasibility of in vivo diffusion tensor imaging on a 3T clinical scanner with a multi echo sequence and compressed sensing reconstruction. Proceedings of the 23rd ISMRM Scientific Meeting & Exhibition, Toronto, Canada.
23. **Parasoglou P**, Xia D, Slade JM, Regatte RR (2015). Co-localized Post-Contractile BOLD and ³¹P-MRI in Muscles of the Lower Leg. Proceedings of the 23rd ISMRM Scientific Meeting & Exhibition, Toronto, Canada.
24. Baete S, Raya J, Knoll F, Cho GY, **Parasoglou P**, Brown R, Block T, Otazo R, Bencardino J, Sigmund E (2015). Towards dynamic diffusion tensor imaging for in vivo muscle tissue using a multi echo sequence and exploiting PCA-sparsity along echo and temporal dimensions. ISMRM Workshop on Diffusion-Weighted Imaging Outside the Brain, Boston, MA.
25. Agten CA, Welbeck A, Xia D, **Parasoglou P**, Rajapakse C, Chen C, Saha PK, Honig S, Chang G (2016). High-resolution 3T MR imaging of bone microarchitecture and MRI quantification of bone marrow fat and muscle fat in osteoporosis. Proceedings of the Annual Meeting of the Society of Skeletal Radiology, New Orleans, LA.
26. **Parasoglou P**, Brown R, Madelin G (2016). 31P-MRI Using A Spectrally Selective 3D non-Cartesian FLORET Sequence at 7T. Proceedings of the 24th ISMRM Scientific Meeting & Exhibition, Singapore.
27. **Parasoglou P**, Zao T, Khegai O, Che X, Slade JM (2016). T2* Mapping of Lower Leg Muscles Following Single Brief Contractions at 3T. Proceedings of the 24th ISMRM Scientific Meeting & Exhibition, Singapore.
28. Che X*, Brown R, Alon L, Regatte RR, **Parasoglou P** (2016). A Low Cost MR Compatible Ergometer For Assessing Lower Leg Muscle Metabolism. Proceedings of the 24th ISMRM Scientific Meeting & Exhibition, Singapore.
29. Khegai O*, Madelin G, Brown R, **Parasoglou P** (2016). Dynamic Phosphocreatine and pH Imaging of the Human Lower Leg Muscle During Exercise at 3T. Gordon Research Conferences, In Vivo Magnetic Resonance, Andhover, NH, USA.
30. Brown R, Khegai O, **Parasoglou P** (2017). Measurement of Phosphocreatine and BOLD kinetics in the Lower Extremity Muscles Using a Dual-Frequency Coil Array. Proceedings of the 25th ISMRM Scientific Meeting & Exhibition, Honolulu, HI, USA.
31. Khegai O*, Madelin G, Brown R, **Parasoglou P** (2017). Dynamic PCr and pH Imaging of the Human Lower Leg Muscle During Exercise at 3T. Proceedings of the 25th ISMRM Scientific Meeting & Exhibition, Honolulu, HI, USA.
32. Sigmund EE, Baete SH, Patel K, Wang D, Otazo R, **Parasoglou P**, Bencardino J (2017). Dynamic Diffusion Tensor Imaging in Normal and Compartment Syndrome Calf Muscle with MEDI1. Proceedings of the 25th ISMRM Scientific Meeting & Exhibition, Honolulu, HI, USA.

* Presented by a student, or fellow under the direct supervision of P. Parasoglou

Media Coverage

NSF, NYU and NYU Langone researchers devise method for enhancing CEST MRI, April 29, 2013, http://www.nsf.gov/news/news_summ.jsp?cntn_id=127923