

NAME Damilola Deborah ADINGUPU

COMPLETED ACADEMIC DEGREES

Degree Name	Subject Area	Where Completed	Date of Completion
PhD in Medical Studies	Physiology	Peninsula College of	June 2013
		Medicine, University of	
		Exeter and University of	
		Plymouth, United	
		Kingdom	
Applied Biomedical	Biosciences	University of Lincoln,	July 2009
Science		United Kingdom	
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ADVANCED STUDIES IN PROGRESS

Degree Name	Subject Area	Where Enrolled	Est. Completion Date
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ACADEMIC APPOINTMENT

Appointment Level	Institution	Dates (Yr to Yr)	Subject Area
Assistant Professor	Ambrose University	2024	Biology
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ADMINISTRATIVE APPOINTMENTS

Appointment Level	Institution	Dates (Yr to Yr)
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Research Associate	Radiology, Cumming	2019 to date
	School of Medicine	
	University of Calgary	

TEACHING EXPERIENCE

Institution	Dates (Yr to Yr)	Courses Taught (Course # and Name)
University of Exeter	2012 – 2013	Research Methods and Methodologies
Medical School		Vascular Laboratory Facilitator
Ambrose University	Sept 2019 – May 2020 Sept 2022 – to date	Human Physiology 1 &2, Integrative Physiology Human Anatomy & Physiology 1&2, Introduction to Plant and Organismal Biology, Pathophysiology
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SCHOLARLY PARTICIPATION

Books Authored or Edited

Dates (Yr to Yr)	Activity (Name of book, publisher etc)
2023	Adingupu, D., & Adingupu, I. (2023). Thriving Relationships: A Couples Guide
	to Relational Transformation. Friesen Press.
	https://books.friesenpress.com/store/title/119734000367353149/Damilola-
	Adingupu-and-Ifechukwude-Adingupu-Thriving-Relationships
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Refereed Publications

Dates	Activity (Name of article and journal)
2023	Temporal pattern of cortical hypoxia in Multiple Sclerosis and its significance
	on neuropsychological and clinical measures of disability. Ann Neurol. 2023
	Aug 22. doi: 10.1002/ana.26769. PMID: 37605937
2023	Brain hypoxia, neurocognitive impairment, and quality of life in people post-
	COVID-19. J Neurol. 2023 May 21:1–12. doi: 10.1007/s00415-023-11767-2.
2022	Non-invasive detection of persistent cortical hypoxia in Multiple Sclerosis
	using frequency domain near-infrared spectroscopy (fdNIRS). Advances in
	Experimental Medicine and Biology, doi: 10.1007/978-3-031-14190-4_15
2022	NIRS studies show reduced interhemispheric functional connectivity in
	individuals with Multiple Sclerosis that exhibit cortical hypoxia. Advances in
	Experimental Medicine and Biology, doi: 10.1007/978-3-031-14190-4_25
2022	Carotid-Femoral pulse wave velocity acquisition methods and their
	association with cardiovascular risk factors and subclinical biomarkers of
	vascular health. Journal of Hypertension, doi:
	10.1097/HJH.000000000003055
2021	Cerebral small vessel disease, systemic vascular characteristics, and potential
	therapeutic targets. Aging, doi: 10.18632/aging.203557
2021	Intestinal sodium/glucose cotransporter 3 expression is epithelial and
	downregulated in obesity. Life Sciences, 267. doi: 10.1016/j.lfs.2020.118974.
	Weight change and sulfonylurea therapy are related to 3 year change in
2020	microvascular function in people with type 2 diabetes. Diabetologia, 63(6),
	1268-1278. doi: 10.1007/s00125-020-05125-

February 2019	SGLT2 inhibition with empagliflozin improves coronary microvascular function
	and cardiac contractility in prediabetic ob/ob-/- mice. Cardiovasc Diabetol,
	18(1):16.
June 2017	Radial artery intima-media thickness regresses after secondary prevention
	interventions in patients' post-acute coronary syndrome and is associated
	with cardiac and kidney biomarkers. <i>Oncotarget</i> , 8(32)
September 2017	The impact of cardiovascular co-morbidities and duration of diabetes on the
	association between microvascular function and glycemic control. Cardiovasc
	Diabetol, 16: 114
June 2016	Reactivity to low-flow as a potential determinant for brachial artery flow-
	mediated vasodilatation. <i>Physiol Rep,</i> 4.
September 2016	Hyperglycemia Induced by Glucokinase Deficiency Accelerates Atherosclerosis
	Development and Impairs Lesion Regression in Combined Heterozygous
	Glucokinase and the Apolipoprotein E-Knockout Mice. Journal of Diabetes
	Research 2016: 11.
May 2015	Blood Oxygen Saturation After Ischemia is Altered With Abnormal
	Microvascular Reperfusion. <i>Microcirculation</i> 22(4): 294-305.
January 2012	Microcirculation on a Large Scale: Techniques, Tactics and Relevance of
	Studying the Microcirculation in Larger Population Samples. <i>Microcirculation</i> ,
	19, 37-46.
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Non-Refereed Publications

Dates	Activity (Name of article and journal)
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Conference Presentations

Dates	Activity (Name of article and journal)
2024	Detection of abnormalities in the post-acute COVID brain using functional and
	frequency domain near-infrared spectroscopy. Abstract at the Third Britton
	Chance International Symposium on Metabolic Imaging and Spectroscopy,
	Smilow Center for Translational Research, Philadelphia.
2023	Reduced cortical oxygen, hemoglobin, and impaired cognitive function in post
	COVID-19 sequalae. Abstract at Vascular Training Platform Conference,
	Montreal, Canada.
2023	Investigating brain hypoxia and functional connectivity in individuals who
	have had COVID-19. Abstract at Vascular Training Platform Conference,
	Montreal, Canada.

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2013	Microvascular autoregulatory response to ischemia and pulse pressure.
	Abstract and Poster at British Hypertension Society Annual Scientific Meeting
	(National Meeting), Greenwich, United Kingdom.
2013	Microvascular autoregulatory response to ischemia in the skin and
	association with mean blood oxygen saturation. Abstract and Poster at British
	Hypertension Society Annual Scientific Meeting (National Meeting),
	Greenwich, United Kingdom.
2013	Cutaneous microvascular regulatory response to ischemia and association
	with mean oxygen saturation. Abstract and Poster at the 37th Congress of the
	International Union of Physiological Sciences (International Meeting),
	Birmingham, United Kingdom.
2013	The prevalence of abnormal microvascular response (peaks) in stroke or
	transient ischemic attack (TIA) patients compared with Controls and
	association with impaired sympathetic activity. Abstract and Poster at the
	22nd European Stroke Conference (International Meeting), London, United
	Kingdom.
2012	The prevalence of microvascular autoregulatory disturbance in those with
	TIA, stroke and type 2 diabetes compared to healthy controls. Abstract and
	Poster for Joint Meeting of the British and American Microcirculation
	Societies (International Meeting), Oxford, United Kingdom.
2011	Post occlusive microvascular autoregulatory dysfunction is not associated
	with endothelium dependent or independent vasodilatation. Abstract and
	Poster at the Joint Meeting of the European Society of Microcirculation (ESM)
	and the Society of Microcirculation and Vascular Biology (GfMVB)
	(International Meeting), Munich, Germany.
2011	Abnormal cutaneous post ischemic microvascular autoregulatory responses
	are associated with impaired sympathetic tone. Abstract and Poster at the
	16th Annual Meeting of the ECCR (International Meeting), Nice, France.
2011	Post ischemic microvascular autoregulatory abnormalities are associated with
	impaired sympathetic activity. Abstract and Poster at Young Life Scientist
	Symposium (National Meeting), Birmingham, United Kingdom.
2011	Prevalence of skin microvascular autoregulatory dysfunction in patients who
	suffer stroke compared to the general population. Abstract and Poster at the
	British Geriatric Society autumn meeting (National Meeting), Brighton, United
	Kingdom.
2010	Abnormal reactive hyperemia response morphology occurs in the calf.
	Abstract and Poster at the ninth World Congress of Microcirculation
	(International Meeting), Paris, France.
2010	Comparison of Moor VMS and DRT4 fluximeter, for the assessment of skin
	microcirculation. Abstract and Poster at British Microcirculation Society
	Meeting (National Meeting), Exeter, United Kingdom.
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Research Grants

Dates	Activity (Name of grant and research)	
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ACADEMIC AND PROFESSIONAL PRESENTATIONS

Dates	Name of Presentation to Name of Organization
September 2022	The International Society on Oxygen Transport to Tissue (ISOTT). Reduced cerebral tissue oxygen saturation correlates with impaired cognitive function in people with post-COVID-19 condition.
July 2021	Virtual Presentation, The International Society on Oxygen Transport to Tissue (ISOTT). Non-invasive detection of persistent cortical hypoxia in multiple sclerosis using frequency domain near-infrared spectroscopy (fdNIRS).
April 2016	Sixty Sixth Annual Meeting of the British Microcirculation Society, Newcastle, UK. Oral Presentation: Effect of standard of care treatment on in-vivo coronary vascular function in GK-APOE mice; a novel model of diabetes and atherosclerosis, using non-invasive high-resolution ultrasound.
September 2013	British Hypertension Society, Greenwich, UK. Oral presentation: Microvascular autoregulatory response to ischemia in the skin and association with mean blood oxygen saturation.
July 2013	International Early Career Symposium, IUPS 2013, Birmingham, UK. Oral presentation: Microvascular regulatory response to ischemia and association with cutaneous oxygen saturation.
May 2011	Young Life Scientist Symposium, Birmingham, UK. Oral presentation: Post ischemic microvascular autoregulation abnormalities are associated with impaired sympathetic activity.
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PROFESSIONAL MEMBERSHIPS, QUALIFICATIONS and EXPERIENCE

Professional Memberships	
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Professional Qualifications

Diploma Certificate Laboratory Animal Science, September 2015

Clinical research: Tri-Council Policy Statement: Ethical Conduct for Research Involving Humans Course on Research Ethics (TCPS 2: CORE), May, 2019

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Professional Experience

Experienced in pre-clinical studies using rodent models of diabetes

Experienced in conducting clinical research

Practical experience with non-invasive vascular assessment techniques.

Practical experience in myography and tissue dissection

Experienced in performing real-time PCR

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