

Susan Matthews
Full Member
College of Medicine and Public Health
Flinders Health and Medical Research Institute



Research Biography

Dr Susan Matthews is a Senior Lecturer (Balanced Academic) and Point-of-Care Testing Discipline Lead within the College of Medicine and Public Health at Flinders University. Susan has expertise in Biochemistry and Physiology (BSc Honours (1st Class, 1994), Endocrinology (PhD, 1998) and Clinical Laboratory Medicine (MAACB, 2007). She is the recipient of a Women and Leadership Australia Scholarship, an Australian Postgraduate Research Award and Co-operative Research Centre Post-Doctoral Fellowship.

Susan has over 20 years of medical scientific expertise relevant to her translational research in chemical pathology, medical testing regulatory compliance (ISO15189), training and competency development, quality management of extensive point-of-care testing networks and leading policy change. In the past 5-years as Deputy Director/Co-Director of the Flinders University International Centre for Point-of-Care Testing, Susan has developed collaborative research (as CI) with the Commonwealth Government, the Northern Territory and Western Australian Departments of Health, the National Aboriginal Community Controlled Health Organisation, the Aboriginal Health Council of South Australia, the Victorian Aboriginal Community Controlled Health Organisation, the Kirby Institute, the Burnett Institute, Wesfarmers Health attracting 14 Category grants with researcher share of institutional award of \$10.37M and an audited HERDC income from 2020 of \$3.56M. Her publications have contributed to understanding age pathology parameters and utility of paediatric reference intervals; implementation and evaluation of national acute, chronic and infectious disease point-of-care diagnostic frameworks; enhanced linkage to novel care pathways and informed COVID-19 pandemic response. Susan has national/international recognition in the field of point-of-care testing as invited keynote/speaker, sessional Chair and an advisory member for: the Australasian Association of Clinical Biochemistry and Laboratory Medicine, the Australasian Society for HIV, Viral Hepatitis and Sexual Health Medicine (ASHM) the International Federation of Clinical Chemistry, Royal College of Australasia Quality Assurance Program and World Organization of Family Doctors (WONCA). She is currently CI on a collaborative point-of-care testing National Health Medical Research Council (NHMRC) Centre for Research Excellence (CRE) and a Medical Research Future Fund (MRFF) Rapid Applied Research Translation Initiative with the Kirby Institute (UNSW), a global World Health Organization (WHO) Collaborating Centre for sexually transmitted infections and executive special interest group for the World Organization of Family Doctors WONCA).

In education, Susan completed the Flinders Foundations of Teaching and brings over 11 years' experience in the practice of teaching, topic coordination and Work Integrated Learning (WIL) placement programs at Flinders University, Deakin University, James Cook University, and the Royal Melbourne Institute of Technology (RMIT) University. Most recently, she led an evaluative research project on the impact of online peer feedback to the scholarship of learning and teaching. Her teaching philosophy is student-focussed: 'to utilise scientific knowledge, skills, and leadership to foster clinical education and scientific competency for the development of high-quality, work-ready graduates'. She is currently the topic coordinator for a specialist point-of-care testing unit (MDSC3100) and delivers invited lectures to the Doctor of Medicine (MMED9150) at Flinders University. Susan has recruited and mentored several Flinders University graduates to the International Centre for Point-of-Care testing. Susan was appointed as the Point-of-Care Discipline Lead in 2020, reporting to the Head of Public Health Discipline within the College of Medicine and Public Health. She also serves on the College of Medicine and Public Health Reconciliation Plan (RAP) Committee and has contributed to the Flinders University Rural and Remote SA & NT Primary Healthcare Manual Team, College Research Forums, Flinders University Open Days, College Retreats and promoted Flinders University in partnership with the South Australian Government in local media events.

Qualifications

Postgraduate Certificate, Flinders University Foundation of University Teaching (FOOUT)

1 Feb 2019 → 30 Nov 2019

Award Date: 30 Nov 2019

Postgraduate Certificate, Flinders University Foundations of University Teaching (FFOUT), Flinders University 2019

Award Date: 31 Oct 2019

Postgraduate Certificate, Advanced Leadership Program, Women and Leadership Australia

2016 → 2017

Award Date: 1 Nov 2017

Master of Science, Membership to the Australasian Association of Clinical Biochemistry (MAACB), Australasian Association of Clinical Biocemists

2003 → 2007

Award Date: 1 Nov 2007

PhD, Regulation of insulin-like growth factors using a fish model, *Lates calcarifer*., James Cook University
1994 → 1997

Award Date: 1 Nov 1997

Bachelor (Honours), Detection and regulation of insulin-like growth factors in Murray Perch, *Macquaria ambigua*., Deakin University

1993

Award Date: 1 Nov 1994

Bachelor of Science, Majors: Human Physiology and Biochemistry, Deakin University

1990 → 1992

Award Date: 1 Nov 1993

Employment

Senior Lecturer

College of Medicine and Public Health

Flinders University

1 Jan 2020 → 31 Dec 2024

Full Member

Flinders Health and Medical Research Institute

Flinders University

1 Jul 2019 → present

Principal Scientist - Biochemistry

Royal Children's Hospital, Melbourne

Parkville, Australia

31 Oct 2010 → 17 Dec 2019

Medical Scientist 2nd-in-Charge Biochemistry

Royal Melbourne Hospital

Parkville, Australia

1 Jan 2003 → 1 Jan 2010

Medical Scientist - Biochemistry

St Vincent's Health, Melbourne

Australia

1 Jan 2002 → 1 Jan 2003

Postdoctoral Fellow

James Cook University

Townsville, Australia

1 Jan 1997 → 1 Jan 2000

Research outputs

Using online peer feedback tools to improve undergraduate group interaction and assessment quality

Emery, K. L., Shephard, M. D. & Matthews, S. J., 1 Jul 2024, p. 26-34. 9 p.

Clinical effectiveness and analytical quality of a national point-of-care testing network for sexually transmitted infections integrated into rural and remote primary care clinics in Australia, 2016–2022: an observational program evaluation

Causier, L., Ward, J., Smith, K., Saha, A., Andrewartha, K., Wand, H., Hengel, B., Badman, S., Tangey, A., Matthews, S., Mak, D. B., Gunathilake, M., Moore, E., Speers, D., Persing, D., Anderson, D., Whiley, D., Maher, L., Regan, D., Donovan, B., & 5 others Fairley, C., Kaldor, J., Shephard, M., Guy, R. & TTANGO2 Collaboration, Jul 2024, In: *The Lancet Regional Health - Western Pacific*. 48, 12 p., 101110.

Using online peer feedback tools to improve undergraduate group interaction and assessment quality

Emery, K., Shephard, M. & Matthews, S., Jul 2024, p. 19 (P128). 1 p.

External Quality Assessment (EQA) for SARS-CoV-2 RNA Point-of-Care Testing in Primary Healthcare Services: Analytical Performance over Seven EQA Cycles

Matthews, S., Miller, K., Andrewartha, K., Milic, M., Byers, D., Santosa, P., Kaufer, A., Smith, K., Causer, L. M., Hengel, B., Ineka, G., Applegate, T., Rawlinson, W. D., Guy, R. & Shephard, M., 1 Jun 2024, In: *Diagnostics*. 14, 11, 12 p., 1106.

Independent clinic-based evaluation of point-of-care testing for the screening of *Chlamydia trachomatis*, *Neisseria gonorrhoea* and *Trichomonas vaginalis* in women-at-risk in Australia, Guatemala, Morocco, and South Africa.

Shephard, M., Matthews, S., Kularatne, R., Andrewartha, K., Blondel, K., Alvarez, C., Camey, E., Hancali, A., Muller, E., Haw, A., Oumzil, H., Golparian, D., Ramirez, D. E., Kiarie, J., Kurbonov, F., Mirandola, M., Peeling, R. W., Silva, R., Thwin, S. S., Unemo, M., & 1 othersToskin, I., 4 Mar 2024, In: *BMC Infectious Diseases*. 24, Supplement 1, 11 p., 277.

Quality control and external quality assessment for the independent clinic-based evaluation of point-of-care testing to detect *Chlamydia trachomatis*, *Neisseria gonorrhoeae* and *Trichomonas vaginalis* in eight countries.

Shephard, M., Matthews, S., Andrewartha, K., Dimich, W., Cabuang, L., Barbara, C., Chen, X-S., Cordioli, M., Hancali, A., Jiang, T-T., Kularatne, R., Meli, S., Muller, E., Oumzil, H., Padovese, V., Sandri, A., Vargas, S., Zahra, G., Unemo, M., Blondeel, K., & 1 othersToskin, I., 29 Feb 2024, In: *BMC Supplements*. 24, Supplement 1, 10 p., 203.

We have reached single-visit testing, diagnosis, and treatment for hepatitis C infection, now what?

Grebely, J., Matthews, S., Causer, L. M., Feld, J. J., Phillip, C., Dore, G. J. & Applegate, T. L., 2024, In: *Expert Review of Molecular Diagnostics*. 24, 3, p. 177-191 15 p.

Clinical effectiveness and analytical quality of a national point-of-care testing network for sexually transmitted infections integrated into rural and remote primary care clinics in Australia, 2016 - 2022

Causer, L. M., Ward, J., Smith, K., Saha, A., Andrewartha, K., Wand, H., Hengel, B., Badman, S., Tangey, A., Matthews, S., Mak, D., Gunathilake, M., Moore, E., Speers, D., Persing, D., Anderson, D., Whiley, D. M., Maher, L., Regan, D., Donovan, B., & 5 othersFairley, C., Kaldor, J. M., Shephard, M., Guy, R. & TTANGO2 Collaboration, 22 Dec 2023, (Submitted) SSRN, 18 p. (The Lancet Regional Health - Western Pacific).

Point-of-Care Testing in Rural and Remote Australia: An Emerging Technology to Address Global Health Challenges, Crises and Security

Shephard, M., Matthews, S., Causer, L., Hengel, B. & Guy, R., 23 Nov 2023, *Global Health Security – Contemporary Considerations and Developments*. Michaud, A., Stawicki, S. P. & Izurieta, R. (eds.). London, United Kingdom: IntechOpen, 23 p.

Flexible and Innovative Connectivity Solution to Support National Decentralized Infectious Diseases Point-of-Care Testing Programs in Primary Health Services

Saha, A., Andrewartha, K., Badman, S. G., Tangey, A., Smith, K. S., Sandler, S., Ramsay, S., Braund, W., Manoj Margision, S., Matthews, S., Shephard, M., Guy, R. & Causer, L., 1 Sept 2023, In: *Journal of Medical Internet Research*. 25, 1, 14 p., e46701.

Assessment of the training framework for the Aboriginal and Torres Strait Islander Respiratory Infection POCT Program

Mazonka, P., Andrewartha, K., Shephard, M., Milic, M., Miller, K., Alternetti, N., Baigent, W., Skliwa, J., Popp, M., Tangey, A., O'Connor, S., Causer, L., Hengel, B., Guy, R. J., Crowley, H., Williams, A., Matthews, S. & Respiratory Infection Point-of-Care Testing Team, 27 Jul 2023, p. Poster 24. 1 p.

A national program to scale-up decentralized hepatitis C virus point-of-care testing and treatment in Australia

Grebely, J., Markus, C., Causer, L., Silk, D., Comben, S., Hosseini-Hooshyar, S., Davey, S., Lloyd, A. R., Martinez, M., I, S., Phillip, C., Fowlie, C., Cunningham, E., Marshall, A., Byrne, M., Treloar, C., Shih, S., Gray, R., Wiseman, V., Applegate, T., & 15 othersGuy, R., Martinello, M., Hajarizadeh, B., Lafferty, L., Dimich, W., Cabuang, L., Schroder, P., Read, P., Pedrana, A., Sheehan, Y., Thompson, A., O'Loan, J., O'Flynn, M., Dore, G. & Matthews, S., Jul 2023. 2 p.

Lot-to-lot reagent changes and commutability of quality testing materials for total bile acid measurements

Markus, C., Coat, S., Marschall, H. U., Matthews, S., Loh, T. P., Rankin, W. & Hague, W. M., Jun 2023, In: *Clinical Chemistry and Laboratory Medicine*. 61, 7, p. e108-e111 4 p.

A National Program To Scale-Up Decentralized Hepatitis C Virus Point-Of-Care Testing And Treatment In Australia

Grebely, J., Markus, C., Causer, L., Silk, D., Comben, S., Martinez, M., Phillip, C., Fowlie, C., Cunningham, E., Marshall, A., Treloar, C., Shih, S., Wiseman, V., Gray, R., Guy, R., Applegate, T., Martinello, M., Hajarizadeh, B., Dimech, W., Dawson, O., & 4 others Read, P., Lloyd, A., Dore, G. & Matthews, S., 25 Apr 2023.

An innovative connectivity solution for national decentralised infectious diseases testing programs in regional and remote primary health services in Australia

TTANGO2 Collaboration, Saha, A., Andrewartha, K., Badman, S., Tangey, A., Smith, K., Sandler, S., Ramsay, S., Braund, W., Matthews, S., Shephard, M., Guy, R. & Causer, L., 14 Mar 2023. 2 p.

Assessment of the training and quality systems for the TTANGO3 (Test, Treat And GO) sexually transmitted infection (STI) point-of-care testing network.

Shephard, M., Andrewartha, K., Matthews, S., Hewer, G., Causer, L., Smith, K. & Guy, R., 14 Mar 2023. 1 p.

Development and implementation of a training system for syphilis point-of-care testing in primary care settings

Rivers-Kennedy, A., de Courcy-Ireland, E., Woelk, V., Prisk, E., Phillips, E., Alexander, K., Bacon, M., Bastian, L., Tomney, L., Andrewartha, K., Matthews, S. & Shephard, M., 14 Mar 2023. 2 p.

Evaluation of a program providing operator training, quality assurance, and quality control for point-of-care testing for hepatitis C infection

Markus, C., Causer, L., Silk, D., Tu, E., Comben, S., Martinez, M., I, S., E, C., Williams, J., Richards, J., Applegate, TA., Dimich, W., Cabuang, L., Dawson, O., S, K., Guy, R., Cunningham, P., Shephard, M., Grebely, J. & Matthews, S., 14 Mar 2023. 2 p.

"It's positive- now what?": Developing systems to enable real-time public health action in a large decentralised remote and regional COVID-19 point of care testing program

Patel, P., Applegate, T., Andrewartha, K., Causer, L., Saha, A., Kindinger, A., Law, H., Borgnolo, B., Miller, A., Martinez, M., Crowley, H., Williams, A., Bodiya, K., Verich, V., Khawar, L., Alternetti, N., Jayasinghe, I., Matthews, S. & Guy, R., 14 Mar 2023.

Quality assurance testing for SARS-CoV-2 RNA detection in the Aboriginal and Torres Strait Islander COVID-19 Point-of-Care Testing Program

Andrewartha, K., Shephard, M., Milic, M., Miller, K., Malinsky, E., Byers, D. L., Santosa, P. J., Kaufer, A. M., Smith, K., Causer, L. M., Hengel, B., Cooney, L., Applegate, T., Guy, R. J., Matthews, S. J. & Respiratory Infection Point-of-Care Testing team and Clinical Advisory Group, 3 Mar 2023. 1 p.

A national programme to scale-up decentralised hepatitis C point-of-care testing and treatment in Australia

Grebely, J., Markus, C., Causer, L. M., Silk, D., Comben, S., Lloyd, A. R., Martinez, M., Cunningham, E. B., O'Flynn, M., Dore, G. J., Matthews, S., National Australian Hepatitis C Point-of-Care Testing Program, Martinello, M. & Dimech, W., Mar 2023, In: *The Lancet Gastroenterology and Hepatology*. 8, 3, p. 204-207 4 p.

Pathology Testing at the Point of Patient Care: Transformational Change for Rural Communities

Shephard, M., Matthews, S., Markus, C., de Courcy-Ireland, E., Duckworth, L., Haklar, I., Kambanaros, E., Regnier, T., Rivers-Kennedy, A. & White, G., 8 Feb 2023, *Rural Health: Investment, Research and Implications*. Rusangwa, C. (ed.). London, United Kingdom: IntechOpen, p. 1-29 29 p.

Decentralised point-of-care testing for acute, chronic and infectious disease: benefits and challenges

Matthews, S. J., Shephard, M. D., Grebely, J. & Guy, R., Feb 2023, In: *Pathology*. 55, Supplement 1, p. S7-S7 1 p.

Barriers and solutions to increasing access to point-of-care HCV testing: Report from the 2023 INHSU Hepatitis C Point-of-Care Testing Forum

Day, E., Matthews, S., Markus, C., Martro, E., Hamid, S., Demant Hansen, J., Ward, J., Fernandez, O., Feld, J., Pawlotsky, J. M. & Grebely, J., 2023, *The International Network on Health and Hepatitis in Substance Users (INHSU)*. 23 p.

Barriers and solutions to increasing access to point-of-care HCV testing: Report from the 2023 IHHSU hepatitis C point-of-care testing forum, Paris, France

Day, E., Matthews, S., Markus, C., Matro, E., Hamid, S., Dormant Hansen, J., Ward, J., Fernandez, O., Feld, J., Pawlowsky, J. M. & Grebely, J., 2023, The International Network on Health and Hepatitis in Substance Users (INHSU). 23 p.

DIABETES POINT-OF-CARE TESTING IMPACT: 24 YEARS OF THE QUALITY ASSURANCE FOR ABORIGINAL AND TORRES STRAIT ISLANDER MEDICAL SERVICES (QAAMS) PROGRAM

Matthews, S., Shephard, M., Regnier, T., Haklar, I., Dunn, D., O'Brien, C., Graham, P., Shepherd, S. & White, G., 2023, In: Clinical Biochemist Reviews. 44, Supplement 1, p. S12 1 p., A14.

Roadmap to incorporating group A Streptococcus molecular point-of-care testing for remote Australia: a key activity to eliminate rheumatic heart disease

Barth, D. D., Cinanni, G., Carpetis, J. R., Wyber, R., Causer, L., Watts, C., Hengel, B., Matthews, S., Ralph, A. P., Pickering, J., Cannon, J. W., Anderson, L., Wade, V., Guy, R. J. & Bowen, A. C., Sept 2022, In: The Medical journal of Australia. 217, 6, p. 279-282 4 p.

Performance of four regression frameworks with varying precision profiles in simulated reference material commutability assessment

Markus, C., Tan, R. Z., Lim, C. Y., Rankin, W., Matthews, S. J., Loh, T. P. & Hague, W. M., 1 Jun 2022, In: Clinical Chemistry and Laboratory Medicine. 60, 8, p. 1164–1174 11 p.

The BACH project protocol: An international multicentre total Bile Acid Comparison and Harmonisation project and sub-study of the TURRIFIC randomised trial

Markus, C., Coat, S., Marschall, H-U., Williamson, C., Dixon, P., Fuller, M., Matthews, S., Rankin, W., Metz, M. & Hague, W., 1 Nov 2021, In: Clinical Chemistry and Laboratory Medicine. 59, 12, p. 1921-1929 9 p.

A decentralised point-of-care testing model to address inequities in the COVID-19 response

Hengel, B., Causer, L., Matthews, S., Smith, K., Andrewartha, K., Badman, S., Spaeth, B., Tangey, A., Cunningham, P., Phillips, E., Ward, J., Watts, C., King, J., Applegate, T., Shephard, M. & Guy, R., Jul 2021, In: Lancet Infectious Diseases. 21, 7, p. e183-e190 8 p.

Patient-Centred Point-of-Care Testing: A Life-Changing Technology for Remote Primary Care

Spaeth, B., Matthews, S. & Shephard, M., 2021, *Primary Care*. Onal, A. E. (ed.). United Kingdom: IntechOpen, p. 1-15 15 p.

SARS-CoV-2 testing: from traditional laboratory detection to an Australian remote point of care testing program

Gnanashanmugam, D. & Matthews, S., 19 Nov 2020. 1 p.

Statistical methods used in the estimation of age-specific paediatric reference intervals for laboratory blood tests: A systematic review

Hoq, M., Canterford, L., Matthews, S., Khanom, G., Ignjatovic, V., Monagle, P., Donath, S., John, C. & HAPPI Kids study team, Nov 2020, In: Clinical Biochemistry. 85, p. 12-19 8 p.

Sustained quality and service delivery in an expanding point-of-testing network in remote Australian Primary Health Care

Matthews, S. J., Spaeth, B., Duckworth, L., Richards, J. N., Prisk, E., Auld, M., Quirk, T., Omond, R. & Shephard, M. D. S., Nov 2020, In: Archives of Pathology and Laboratory Medicine. 144, 11, p. 1381-1391 11 p., 2020-0107-OA.

The benefits and challenges of point-of-care testing in rural and remote primary care settings in Australia

Shephard, M., Shephard, A., Matthews, S. & Andrewartha, K., Nov 2020, In: Archives of Pathology and Laboratory Medicine. 144, 11, p. 1372-1380 9 p.

Validation of the HAPPI Kids Continuous Age-Specific Pediatric Reference Intervals.

HAPPI Kids study team, Hoq, M., Matthews, S., Karlaftis, V., Burgess, J., Donath, S., Carlin, J., Ignjatovic, V. & Monagle, P., Nov 2020, In: The Journal of Applied Laboratory Medicine. 5, 6, p. 1337-1344 8 p., jfaa045.

Reference intervals for serum cystatin C in neonates and children 30 days to 18 years old

Cai, T., Karlaftis, V., Hearps, S., Matthews, S., Burgess, J., Monagle, P., Ignjatovic, V. & The HAPPI Kids study team, Oct 2020, In: PEDIATRIC NEPHROLOGY. 35, 10, p. 1959-1966 8 p.

Paediatric Reference Intervals: Current Status, Gaps, Challenges and Future Considerations

Hoq, M., Matthews, S., Donath, S., John, C., Ignjatovic, V. & Monagle, P., May 2020, In: Clinical Biochemist Reviews. 41, 2, p. 43-52 10 p.

Routine free thyroxine reference intervals are suboptimal for monitoring children on thyroxine replacement therapy and target intervals need to be assay-specific

Wheeler, E., Choy, K. W., Chin, L. K., Wijeratne, N., McNeil, A., Yen, T., Matthews, S., Deam, D., Lu, Z., Loh, T. P., Doery, J. & Bergman, P., 13 Dec 2019, In: Scientific Reports. 9, 1, 7 p., 19080.

Establishment of an Asia-Pacific Dried Blood Spot External Quality Assurance Program

Anderson, T., Greaves, R., McWhinney, A., Massie, J., Matthews, S., Shepherd, S., Webster, D., Wiley, V. & Graham, P., Oct 2019, In: Twin Research & Human Genetics. 22, 5, p. 407-408 2 p., P125.

Diagnostic Improvement for Diabetes Insipidus?

Matthews, S., 1 Sept 2019, In: Clinical Biochemist Newsletter. 216, September, p. 39-40 2 p.

Interactive quiz: case 2

Matthews, S. & Shephard, M., Sept 2019, Clinical Biochemist Newsletter, 216, p. 24, 31-32 3 p.

A prospective, cross-sectional study to establish age-specific reference intervals for neonates and children in the setting of clinical biochemistry, immunology and haematology: the HAPPI Kids study protocol

Hoq, M., Karlaftis, V., Matthews, S., Burgess, J., Donath, S. M., Carlin, J., Monagle, P. & Ignjatovic, V., 1 Apr 2019, In: BMJ Open. 9, 4, p. 1-8 8 p., e025897.

Reference values for 30 common biochemistry analytes across 5 different analyzers in neonates and children 30 days to 18 years of age

HAPPI Kids study team & Matthews, S., 1 Jan 2019, In: Clinical Chemistry. 65, 10, p. 1317-1326 10 p.

Overlooked Biotin Interference in Children

Tran, C., Chiriano, A., Haworth, E., Lee, J., Matthews, S. & Yen, T., 2018, In: Clinical Biochemist Reviews. 39, 4 Suppl, p. S51 1 p., P74.

Manufacturer's reference intervals for free thyroxine are not ideal for children on thyroxine replacement therapy and target ranges need to be assay-specific

Wheeler, E., Choy, K. W., Chin, L. K., Nikila, W., Alan, M., Matthews, S., Doery, J., Lu, Z., Bergman, P. & Yen, T., 30 Sept 2017, In: Hormone Research in Paediatrics. 88, Supplement 1, 1 p., P1-1701.

End of an era – decommissioning the Abbott TDxFix following the assessment of two chemiluminescent methotrexate immunoassays.

Chiriano, A., Tran, C., Haworth, E. & Matthews, S., 2015, In: Clinical Biochemist Reviews. 36, iii, 1 p., P84.

High Frequency of Undetectable Urine Protein During Screening for Gestational Proteinuria: True Low Protein or Clinical Proteinuria Masked by Excessively Dilute Urine?

Yen, T., Haworth, E., Chiriano, A. & Matthews, S., 2015, In: Clinical Biochemist Reviews. 36, Suppl, 1 p., P77.

Thyroid for thyroid function test reference intervals during pregnancy using the Vitros 5600.

Haworth, E., Chang, C., Yen, T., Chiriano, A. & Matthews, S., 2015, In: Clinical Biochemist Reviews. 36, Suppl, 1 p., P71.

Competency-based standards for Medical Scientists

Merlino, J., Palladino, S., Sheehan, P., Badrick, T., Thorburn, D., Weinholt, L., Prior, T., Ward, G., Matthews, S. J., Noble, J., Woods, T., Williams, V. K. & Bertram, K., 2009, p. 1-21. 21 p.

Mad-Kow-towing to CJD Risk

Czajko, R., Matthews, S. J. & Mohr, M., 2007, In: Clinical Biochemist Reviews. 28, i, p. S24 1 p., P24.

10th APCCB Travelling Scholarship Report

Matthews, S., Dec 2004, In: Clinical Biochemist Newsletter. 156, December, p. 30-31 2 p.

Effect of dietary non-protein energy source on growth, nutrient retention and circulating insulin-like growth factor I and triiodothyronine levels in juvenile barramundi, *Lates calcarifer*

Nankervis, L., Matthews, S. J. & Appleford, P., 5 Dec 2000, In: Aquaculture. 191, 4, p. 323-335 13 p.

Nutritional regulation of insulin-like growth factor-I mRNA expression in barramundi, *Lates calcarifer*

Matthews, S. J., Kinhult, A. K. K., Hoeben, P., Sara, V. K. & Anderson, T. A., Jun 1997, In: Journal of Molecular Endocrinology. 18, 3, p. 273-276 4 p.

Activities

17th National Rural Health Conference (Event)

Susan Matthews (Reviewer), Lauren Duckworth (Reviewer) & Ellen Kambanaros (Reviewer)

16 Sept 2024

The 2nd Asia Pacific Conference on Point of Care Testing for Infectious Diseases

Susan Matthews (Member of programme committee)

19 Jun 2024 → 21 Jun 2025

Rural Resilience: Enhancing Wellbeing, Strengthening Communities

Susan Matthews (Speaker)

14 Jun 2024

Rural Resilience: Enhancing Wellbeing, Strengthening Communities

Susan Matthews (Participant)

14 Jun 2024

QAAMS Annual Workshop 2024

Susan Matthews (Participant)

1 May 2024 → 2 May 2024

POC Impact Case Studies Workshop

Susan Matthews (Speaker)

14 Mar 2024

Australia/New Zealand Advanced Point-of-Care Management Workshop

Susan Matthews (Participant)

21 Nov 2023 → 22 Nov 2023

Point of Care Coordinator Advanced Workshop (Roche)

Susan Matthews (Participant)

21 Nov 2023 → 22 Nov 2023

A new rapid test and approach for the detection of Strep A in the throat and reduction of ARF in remote Australia.

Asha Bowen (Speaker), Prital Patel (Speaker), Bernadette Wong (Speaker), Emily Phillips (Speaker), Mel Fernando (Speaker), Susan Matthews (Speaker), Louise Causer (Speaker) & Rebecca Guy (Speaker)

2 Nov 2023 → 4 Nov 2023

College of Medicine and Public Health (Organisational unit)
Susan Matthews (Member)
31 May 2023

ICPOCT Biggest Morning Tea 2023
Susan Matthews (Participant)
25 May 2023

2023 College Retreat CMPH
Susan Matthews (Participant)
24 May 2023 → 25 May 2023

Evaluation of COVID-19 point-of-care testing in remote and First Nations communities: Commissioned Report by the Department of Health and Aged Care
Susan Matthews (Participant)
23 May 2023

INHSU Hepatitis C Point-of-Care Testing Forum
Susan Matthews (Participant)
25 Apr 2023

Workforce training and quality assurance.
Susan Matthews (Speaker)
25 Apr 2023

Evaluation of a program providing operator training, quality assurance, and quality control for point-of-care testing for hepatitis C (HCV) infection.
Susan Matthews (Speaker)
24 Apr 2023

AACB SA/NT Educational Meeting
Susan Matthews (Speaker)
4 Apr 2023

Integrating community, public health and regulatory needs for sustainable point-of-care testing delivery: lessons learnt and future challenges.
Susan Matthews (Speaker)
4 Apr 2023

Integrating community, public health and regulatory needs for sustainable point of care testing delivery; lessons learnt and future challenges.
Susan Matthews (Speaker)
15 Mar 2023

Australasian Conference on Point of Care Testing for Infectious Diseases
Susan Matthews (Participant)
14 Mar 2023

POC23 Conference
Susan Matthews (Speaker)
14 Mar 2023 → 15 Mar 2023

Pathology Update 2023

Susan Matthews (Speaker)
24 Feb 2023 → 26 Feb 2023

S.C.A.M. 101 - training

Susan Matthews (Participant)
13 Feb 2023

Annual Conference of the Australian Association of Clinical Biochemists 2007 (Event)

Susan Matthews (Chair)
30 Sept 2022

International Federation for Clinical Chemistry (IFCC) WorldLab 24th International Congress of Clinical Chemistry and Laboratory Medicine and 16th Asia-Pacific Congress of Clinical Biochemistry

Susan Matthews (Participant)
26 Jun 2022 → 30 Jun 2022

QAAMS Annual Workshop 2022

Susan Matthews (Participant)
21 Jun 2022 → 22 Jun 2022

Australasian Conference on Point of Care Testing for Infectious Diseases

Susan Matthews (Member of programme committee)
1 Jun 2022 → 20 Mar 2023

Point-of-Care testing for hepatitis C: a framework from decentralised testing (ASHM)

Susan Matthews (Speaker)
11 Mar 2022

Scope of Point of Care Testing (POCT) and Accreditation Issues

Susan Matthews (Speaker)
17 Feb 2022

Guest lecture MMED9150 Flinders University

Susan Matthews (Speaker)
15 Feb 2022

RCPA AACB Chemical Pathology Course 2022

Susan Matthews (Invited speaker)
14 Feb 2022 → 18 Feb 2022

Certificate of Appreciation (Remote Primary Health Care Manuals)

Susan Matthews (Participant)
2022

23rd World Conference of Family Doctors (European Accreditation Council for Continuing Medical Education)

Susan Matthews (Participant)
22 Nov 2021

Australasian Association of Clinical Biochemists (External organisation)

Susan Matthews (Member)
5 Jul 2021 → 30 Jun 2022

12th Australasian Viral Hepatitis Conference

Susan Matthews (Invited speaker)

30 May 2021 → 1 Jun 2021

iSTAT Analyser Training and Competency

Susan Matthews (Participant)

7 Mar 2021

Critical Role of Clinical Laboratories in the COVID-19 Pandemic

Susan Matthews (Invited speaker)

17 Feb 2021

Symposium 7: Global Response to COVID-19 Pandemic (Asia-Pacific): SARS-CoV-2 molecular-based testing–experience from the Aboriginal and Torres Strait Islander COVID-19 point-of-care testing program in rural and remote Australia.

Susan Matthews (Speaker)

17 Feb 2021

MMED9150: Introduction to Laboratory Medicine. Flinders University International Centre for Point-of-Care Testing.

Susan Matthews (Speaker)

Feb 2021 → Feb 2024

Indigenous Cultural Awareness Foundations Course

Susan Matthews (Participant)

18 Jan 2021

Portable Covid-19 Pathology Passes the Test

Susan Matthews (Participant)

2021

Special Edition - Australasian COVID-19 Virtual Conference 2020

Susan Matthews (Participant)

8 Dec 2020 → 10 Dec 2020

SARS-CoV-2 Testing: From Traditional Laboratory Detection to an Australian Remote Point-of-Care Testing Program

Susan Matthews (Speaker)

19 Nov 2020

Australasian Association of Clinical Biochemists (External organisation)

Susan Matthews (Member)

1 Jul 2020 → 30 Jun 2021

RCPAQAP Porphyrins Workshop

Susan Matthews (Participant)

3 Apr 2020

57th AACB Annual Scientific Conference

Susan Matthews (Participant)

15 Oct 2019 → 17 Oct 2019

Australasian Association of Clinical Biochemists 57th Annual Scientific Conference

Susan Matthews (Member of programme committee)

15 Oct 2019 → 17 Oct 2019

Australasian Association of Clinical Biochemists 57th Annual Scientific Conference: Clinical Biochemistry Optimising Value in Healthcare

Susan Matthews (Participant)

15 Oct 2019 → 17 Oct 2019

Australasian Association of Clinical Biochemists POCT Satellite Meeting

Susan Matthews (Participant)

14 Oct 2019

Point-of-Care testing Satellite Meeting

Susan Matthews (Participant)

14 Oct 2019

Australasian Association of Clinical Biochemists (External organisation)

Susan Matthews (Member)

1 Jul 2019 → 6 Dec 2020

QAAMS Annual Workshop 2019

Susan Matthews (Participant)

8 May 2019 → 9 May 2019

Quality Assurance for Aboriginal and Torres Strait Islander Medical Services

Susan Matthews (Member of programme committee)

8 May 2019 → 9 May 2019

Australasian Association of Clinical Biochemists (External organisation)

Susan Matthews (Member)

1 Jul 2018 → 30 Jun 2019

14th International Congress of Pediatric Laboratory Medicine (ICPLM)

Susan Matthews (Speaker)

20 Oct 2017 → 22 Oct 2017

10th International Meeting of Pediatric Endocrinology (Event)

Susan Matthews (Reviewer)

14 Sept 2017 → 17 Sept 2017

Chloro-chek Chloridometer Key Operator Training Course

Susan Matthews (Participant)

2 Nov 2016

GoldFFX Basic User Training and Chemical Manifold Material Safety Data Sheet (MSDS) and Document Search Training

Susan Matthews (Participant)

4 Oct 2016

AACB AIMS 2016 Combined Scientific Meeting: Innovations in Medical Science

Susan Matthews (Participant)

13 Sept 2016 → 15 Sept 2016

Australasian Association of Clinical Biochemists (AACB) 5th Harmonisation Workshop

Susan Matthews (Participant)

12 Sept 2016

Clinical Chemistry and Laboratory Medicine (Journal)

Susan Matthews (Reviewer)

5 Sept 2016

Australasian Association of Clinical Biochemists (External organisation)

Susan Matthews (Member)

1 Jul 2016 → 30 Jun 2017

Tuning into Kids Emotional Growth Psychological Clinic Course

Susan Matthews (Participant)

24 Jun 2016

2016 Royal College of Pathologists of Australasia (RCPA) and Australasian Association of Clinical Biochemists (AACB) Chemical Pathology Course

Susan Matthews (Participant)

8 Feb 2016 → 12 Feb 2016

Harmonising Age Pathology Parameters in Kids (HAPPI Kids)

Susan Matthews (Participant)

31 Dec 2015

Royal Children's Hospital Internal Auditor Training

Susan Matthews (Participant)

1 Oct 2015

Australasian Association of Clinical Biochemists (External organisation)

Susan Matthews (Member)

1 Jul 2015 → 30 Jun 2016

Royal College of Pathologists (RCPA) 2015 Pathology Update

Susan Matthews (Participant)

27 Feb 2015 → 1 Mar 2015

Australasian Association of Clinical Biochemists (AACB) 52nd Annual Scientific Conference

Susan Matthews (Participant)

27 Oct 2014 → 29 Oct 2014

Work Health and Safety - Risk Management Module

Susan Matthews (Participant)

23 Sept 2014

Australasian Association of Clinical Biochemists (External organisation)

Susan Matthews (Member)

1 Jul 2014 → 30 Jun 2015

Commemorating the 1st Anniversary of the Official Opening of the New Royal Children's Hospital.

Susan Matthews (Participant)

12 Oct 2012

Australasian Association of Clinical Biochemists (AACB) and Australian Association of Medical Scientists (AIMS) Combined Scientific Meeting

Susan Matthews (Participant)

25 Oct 2010 → 29 Oct 2010

Australian Institute of Medical Scientists (External organisation)

Susan Matthews (Member)

19 Oct 2010 → 19 Oct 2012

Clinical Laboratory Leadership and Management Certificate Program

Susan Matthews (Participant)

30 Jun 2010 → 1 Jul 2011

International Federation of Clinical Chemistry (IFCC) General Conference 2010

Susan Matthews (Participant)

16 Apr 2010 → 19 Apr 2010

Leading Management Practice in Community Services and Health: Workshop Planning and Delegation and Leadership, Mentoring and Coaching

Susan Matthews (Participant)

1 Dec 2008 → 2 Dec 2008

Australian Institute of Medical Scientists (External organisation)

Susan Matthews (Member)

20 Oct 2008 → 20 Oct 2010

Australasian Association of Clinical Biochemists (AACB) Satellite Meeting Protein Workshop

Susan Matthews (Participant)

19 Sept 2008

Australasian Association of Clinical Biochemists (AACB) 46th Annual Scientific Conference

Susan Matthews (Participant)

15 Sept 2008 → 18 Sept 2008

Clinical Biochemistry 2

Susan Matthews (Speaker)

29 May 2008

Australasian Association of Clinical Biochemists (AACB) Scientific Education Seminar: Point-of-Care Testing in Patient Care

Susan Matthews (Participant)

16 May 2008

Australasian Association of Clinical Biochemists (AACB) Scientific Educational Seminar: Diabetes - HbA1c and Estimated Average Glucose

Susan Matthews (Participant)

2 May 2008

International Federation of Clinical Chemistry (IFCC) General Conference

Susan Matthews (Participant)

13 Apr 2008 → 14 Apr 2008

Clinical trials: Triage Stroke Panel Assay Training

Susan Matthews (Participant)

15 Jan 2008

Laboratory Internal Auditor Course

Susan Matthews (Participant)

1 Oct 2007 → 2 Oct 2007

Royal College of Nursing: Stress Management Workshop

Susan Matthews (Participant)

28 Aug 2007

Australasian Association of Clinical Biochemists (AACB) Analytical Quality Scientific Educational Seminar (SES): A Technical Checklist

Susan Matthews (Participant)
16 Aug 2007

Melbourne Health: Peer Support Workshop

Susan Matthews (Participant)
15 Aug 2007

Melbourne Health: DCA 2000+ Analyser Operator Training

Susan Matthews (Participant)
Jun 2007

American Society for Clinical Laboratory Science: Basic Concepts of Quality Control

Susan Matthews (Participant)
25 Apr 2007

Australasian Association of Clinical Biochemists (AACB) Scientific Education Seminar (SES) Analytical Quality: A Technical Checklist

Susan Matthews (Participant)
13 Apr 2007

Australasian Association of Clinical Biochemists (AACB) Chemical Pathology Course

Susan Matthews (Participant)
12 Feb 2007 → 16 Feb 2007

Mental Health First Aid Course

Susan Matthews (Participant)
30 Nov 2006

Melbourne Health Service: Peer Support Training Program

Susan Matthews (Participant)
1 Jun 2006

Clinical Biochemistry

Susan Matthews (Speaker)
20 Apr 2006

Australasian Association of Clinical Biochemists (AACB) 2006 Chemical Pathology Course

Susan Matthews (Participant)
13 Feb 2006 → 17 Feb 2006

Short Course in Clinical Biochemistry

Susan Matthews (Speaker)
3 Feb 2006

National Association of Testing Authorities Technical Assessor

Susan Matthews (Examiner)
2006 → 2024

Technical Assessor Development Program

Susan Matthews (Examiner)
7 Nov 2005

National Association of Testing Authorities (NATA) Australia (External organisation)

Susan Matthews (Chair)

15 Aug 2005 → 2024

2005 Australasian Association of Clinical Biochemists (AACB) Chemical Pathology Course

Susan Matthews (Participant)

15 Feb 2005 → 18 Feb 2005

Radiometer Pacific: ABL 7xx Blood Gas Analyser Back to Basics Workshop

Susan Matthews (Participant)

8 Dec 2004

Improved precision in the Randox HBA1C assay using automated whole blood lysis on the olympus AU400.

Susan Matthews (Speaker)

22 Sept 2004

10th Asian Pacific Congress of Clinical Biochemistry in conjunction with the Australasian Association of Clinical Biochemists' 42nd Annual Scientific Conference

Susan Matthews (Participant)

18 Sept 2004 → 23 Sept 2004

ADVIA Centaur: Key Operator Course

Susan Matthews (Participant)

Feb 2004

2003 Australasian Association of Clinical Biochemists (AACB) Chemical Pathology Course

Susan Matthews (Participant)

10 Feb 2003 → 14 Feb 2003

Australasian Association of Clinical Biochemists (External organisation)

Susan Matthews (Member)

4 Feb 2003

Detection, Interpretation and Clinical Significance of Autoantibodies in Systemic Rheumatic Disease

Susan Matthews (Participant)

1 Sept 2001

Recombinant DNA Techniques

Susan Matthews (Participant)

28 Jun 1999 → 2 Jul 1999

13th International Congress of Comparative Endocrinology

Susan Matthews (Speaker)

17 Nov 1997 → 21 Nov 1997

4th International Symposium on Insulin-like Growth Factors

Susan Matthews (Speaker)

21 Oct 1997 → 24 Oct 1997

6th Biennial Insulin-like growth Factor (IGF) IGF Symposium

Susan Matthews (Participant)

29 Sept 1996

The Endocrine Association of Australia (External organisation)

Susan Matthews (Member)
21 Aug 1996

University of Sydney (External organisation)

Susan Matthews (Member)
1996

The Endocrine Society of Australia 38th Annual Scientific Meeting

Susan Matthews (Participant)
24 Sept 1995

Quality Review Audit Department of Zoology

Susan Matthews (Participant)
29 Aug 1995

Casual Routine Marking Deakin University

Susan Matthews (Participant)
1 Apr 1993 → 22 Nov 1993

Senior academic tutor and student wellbeing support coordinator, Barton College of Residence, Deakin University

Susan Matthews (Participant)
1 Feb 1992 → 30 Nov 1992

23rd Annual Conference of the National Association of Australian University Colleges

Susan Matthews (Participant)
7 Jul 1991 → 12 Jul 1991

Deakin University Barton College Coordinator

Susan Matthews (Participant)
1 Feb 1991 → 30 Nov 1991

Deakin University College of Residence Committee - elected student representative (External organisation)

Susan Matthews (Chair)
1 Feb 1990 → 30 Nov 1990

Prizes

1998 Summer Program: Bridging the Gap Contributions of Cellular and Molecular Biology

Matthews, Susan (Recipient), 1 Jun 1998

AACC Clinical Laboratory Leadership and Management

Matthews, Susan (Recipient), 2011

Acknowledgement re: Aboriginal & Torres Strait Islander Covid-19 Point-of-Care (POC) testing program

Matthews, Susan (Recipient), 23 Mar 2021

Australasian Association of Clinical Biochemists Scholarship

Matthews, Susan (Recipient), 14 Feb 2006

Australasian Association of Clinical Biochemists Scholarship

Matthews, Susan (Recipient), 18 Sept 2004

Australian Leadership Program Scholarship
Matthews, Susan (Recipient), 1 Feb 2016

Australian Postgraduate Research Award
Matthews, Susan (Recipient), 1 Feb 1994

Certificate of Excellence - Status of Women Committee ZONTA club
Matthews, Susan (Recipient), 18 Oct 1988

Co-operative Research Centre for Aquaculture Development Funding Recipient
Matthews, Susan (Recipient), 1999

Discipline Lead Point-of-Care
Matthews, Susan (Recipient), 30 Oct 2020

Internal Research Application (IRA): Department of Zoology
Matthews, Susan (Recipient), 17 Mar 1995

Internal Research Award (IRA), Zoology Department, James Cook University
Matthews, Susan (Recipient), 19 Feb 1996

Letter of acknowledgement from Government of South Australia
Matthews, Susan (Recipient), 23 Mar 2021

NATA Technical Assessor Development Program
Matthews, Susan (Recipient), 22 Nov 2006

Runner Up - Best Digital Poster
Emery, Kirsty (Recipient), Matthews, Susan (Recipient) & Shephard, Mark (Recipient), Jul 2024

Shop, Distributive and Allied Employees Association (SDA) of Victoria Scholarship
Matthews, Susan (Recipient), 1 Nov 1989

Supervisors and Managers for the Laboratory - Certificate of Attendance
Matthews, Susan (Recipient), 8 Oct 2014

The RCH Paediatric Handbook Travelling Scholarship
Matthews, Susan (Recipient), 2017

The Remote Primary Health Care Manuals Team - Certificate of Appreciation
Matthews, Susan (Recipient), 2022

Women & Leadership Australia Advanced Leadership Program
Matthews, Susan (Recipient), Mar 2017

Zoology North Queensland Travel Award
Matthews, Susan (Recipient), 1 Feb 1996

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