blinklab

Early and accurate diagnosis of autism and ADHD

Using a breakthrough AI-powered smartphone platform

JMM & ÉTHICA CAPITAL Innovation & Investment Lunch May 2024





BlinkLab Ltd, Sydney 126 Phillip Street Level 5, NSW 2000

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THE AUSTRALIAN⁺

YOUNG CHILDREN JOINING SCHEME 400 PER CENT HIGHER THAN EXPECTED

NDIS misses autism checks

EXCLUSIVE

STEPHEN LUNN SARAH ISON

Thousands of children with autism or developmental delay who should not be on the \$42bn National Disability Insurance Scheme are still getting taxpayer support because public servants are failing to reassess their cases.

The NDIS caseload surged last year, as the number of children up to six years old who joined the scheme skyrocketed 400 per cent more than expected.

In the latest NDIS annual financial sustainability report. scheme actuary David Gifford notes greater numbers of children

with developmental delay joining the scheme in 2022-23 pushed numbers significantly higher than anticipated

More than 16500 0 to 6-yearoldsigined the NDIS last financial year, 415 per cent greater than the 3211 expected. An additional 23766 neople across all age groups joined the scheme in 2022-23 with developmental delay as their primary disability, when just 5440 were anticipated.

Despite the National Disability Insurance Agency's inability to predict the recent massive increases, the scheme actuary still projects between five and six percent of the 300,000 children aged 0-14 on the NDIS are likely to be removed each year for the next three years as staffing resources.

Freed non-citizen detainees accused of 27 crimes

DAVID MURRAY JESS MALCOLM

Non-citizens released into the community after the High Court's "NZYO" ruling in November have since been accused of committing 27

crimes, with more than 100 of

ramp up. The revelations came as NDIS executives fronted parliament on Wednesday and conceded \$60bn in projected savings would likely disappear altogether them receiving welfare benefits. The Australian Federal

Police's Grant Nicholls told a Senate estimates committee on Tuesday night that as of last Friday, the AFP had received 27 reports of crimes involving former to which she was told the cost of detainees. Seven were commonwealth prosecutions, 18 were state and territory prosecutions and one matter was under consideration.

FULL REPORT P5 COMMENT P5

if Labor's efficiency measures fail. Former NDIS minister Linda Reynolds led a united front of Coalition and Greens senators attacking the Albanese Govern-

ment's secrecy over its plans to contain the scheme's growth over the next decade.

Senator Reynolds grilled officials on whether the scheme was still running "above expectations". the NDIS was 0.9 per cent above expectations as of last September.

The WA senator also asked the NDIS executives what would happen if Labor's \$720m in budgeted "efficiency measures" which the government says will get the scheme's growth down to 8 per cent a year - was not successful.

"It will result in \$60bn in sayints not being realised? In us being \$60bn ... in the black?" Senator Revnolds said

Mr Gifford replied "based on

unick calculations, yes, it would be something like that".

Despite admitting that the NDIS's third quarter report was available and in the hands of commonwealth and state governments, the officials refused to table the documents or provide budget.

data over the past four months. Greens senator Jordon Steele-John criticised the agency for setting a "dangerous precedent" while Senator Reynolds blasted what she called an "unprecedented" lack of transparency.

"It is outrageous and unprecedented for any agency or department to come to Senate estimates and refuse to provide current budget estimates data." she said.

The boom in child and ado-

lescent cases saw an overall increase in NDIS particinant numbers in 2022-23 of 75,847, 32 per cent more than the 57.639 the actuary had expected.

"New entrants with developmental delay and autism accounted for 70 per cent of total new entrants in 2022-23," the actuary's papersays.

About 12 per cent of all boys aged 5-7 are on the NDIS.

Total scheme numbers sat at 610 500 at the end of 2022-23 and are projected to increase to over a million by 2033, with scheme custs anticinated to run to \$92bn.

A critical factor in overall scheme numbers being higher than expected was that fewer children than anticipated left.

Continued on Page 4

Source: ndis.gov.au

Autism summary
June 2023

Insights

As at 30 June 2023:

of the **610,502** active NDIS participants have a **primary disability of autism**, making it the **most common disability for NDIS participants.**

35%

(214,880)

Total payments

In the year ending 30 June 2023:

the NDIS provided \$6.73 billion

of paid supports to participants with autism.

In the previous year:

the NDIS provided \$5.27 billion

of paid supports to participants with autism.





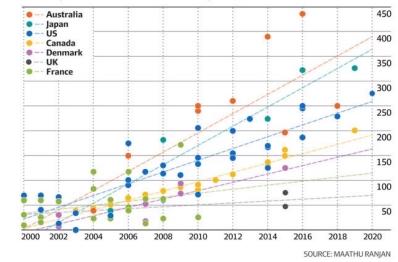
Autism is a \$700B market in 2024 in the US alone

"The economic burden is significant and alarming"¹

Autism prevalence has grown to 2-4% among children²

• Autism healthcare expenses world-wide are soaring³

- Costs for an autism diagnostic evaluation: \$1,000 to \$5,000.
- Costs of care are around **\$60K** annually during childhood³.
- Lifetime cost for individual with ASD: \$3.6M³
- 35% of NDIS participants have autism accounting for \$6.7B⁴.
- No medical autism check available
 - Autism diagnostic evaluation is **subjective.**

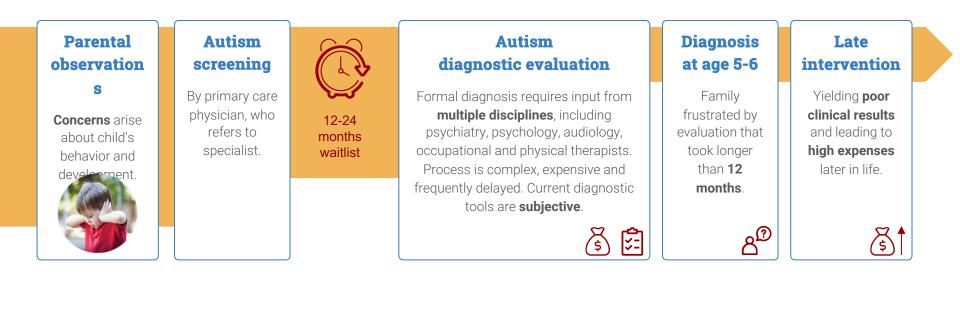


Autism prevalence studies of children, per 10,000

¹ Leigh and Du (2015), Forecasting the economic burden of autism in 2015 and 2025 in the US, Journal of Autism and Developmental Disorder
 ² Center for Disease and Control, World Health Organization
 ³ Cakir et al. (2020) The lifetime social cost of autism: 1990-2029, Research in Autism Spectrum Disorder
 ⁴ National Disability Insurance Scheme (NDIS)

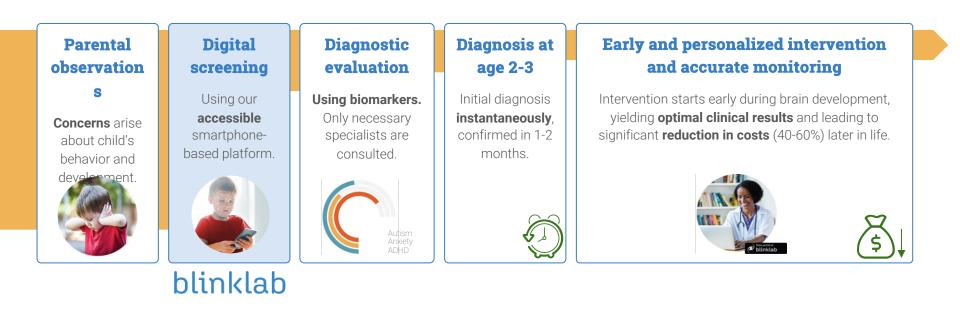
Autism diagnosis is expensive, inaccurate, and too late

Leading to poor developmental and clinical outcomes and high financial costs.



BlinkLab's digital solution accelerates path to diagnosis

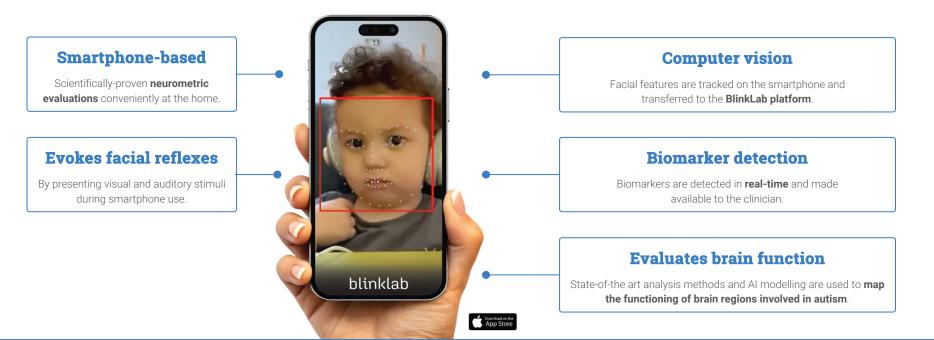
By bringing to market a smartphone platform for **early** and **accurate** autism diagnosis.



BlinkLab facilitates early diagnosis, reduces costs, and improves accuracy.

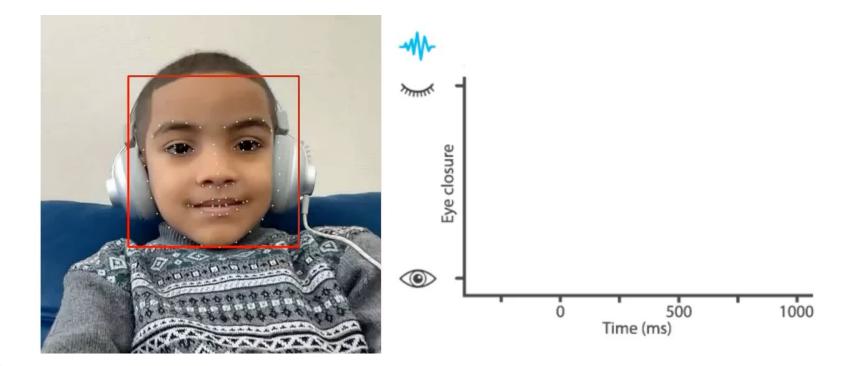
Our patented technology: neuroscience on a smartphone

Minuscule facial reflexes, evoked by our app, generate a digital biomarker for autism.

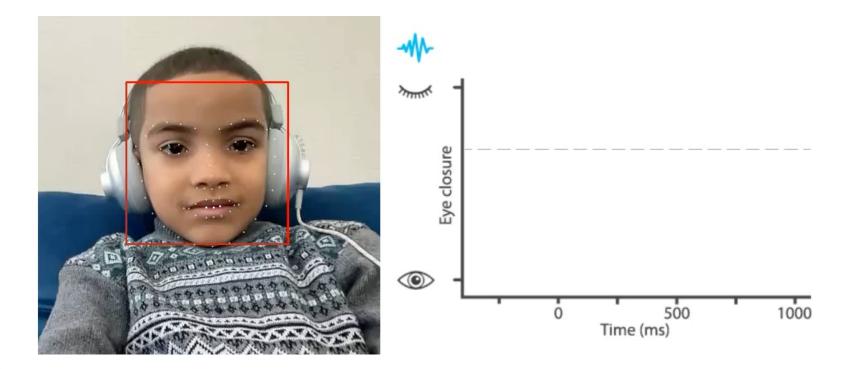


BlinkLab's Al-driven digital platform will address a significant unmet need for cost-effective and precise diagnostic alternatives.

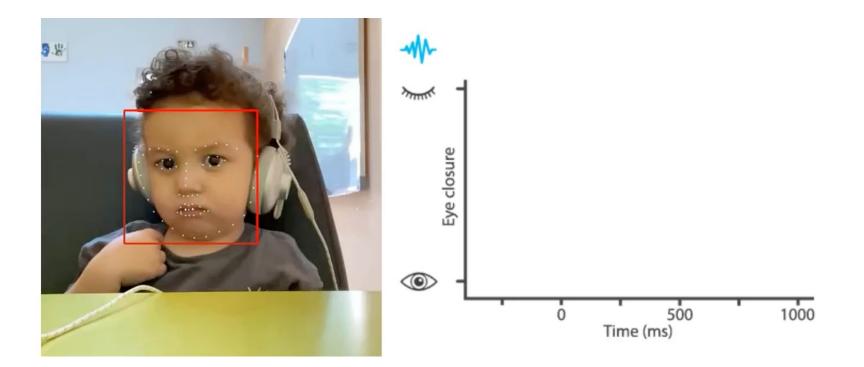
BlinkLab PPI test – Neurotypical Control (4 years old)



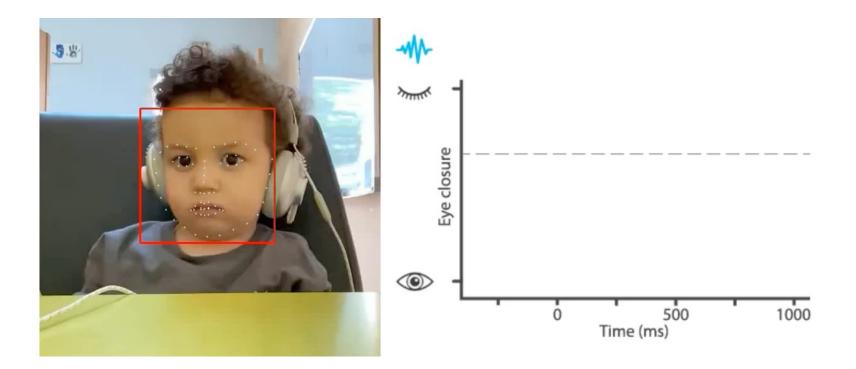
BlinkLab PPI test – Neurotypical Control (4 years old)



BlinkLab PPI test – Autism Spectrum Disorder (2 years old)

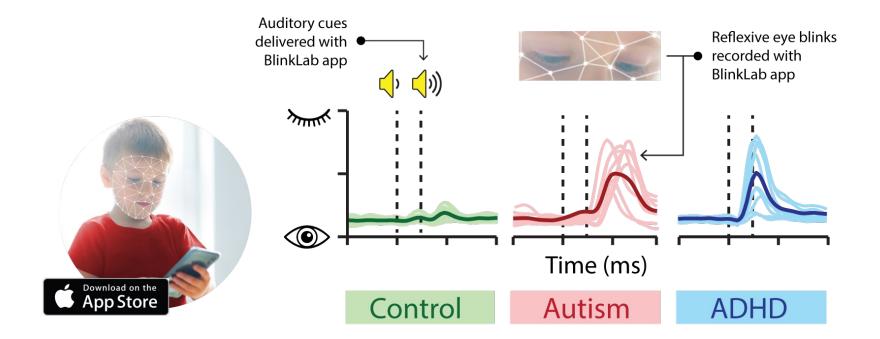


BlinkLab PPI test – Autism Spectrum Disorder (2 years old)



How our AI technology detects autism and also ADHD

BlinkLab precisely measures the alterations in **sensory sensitivity** in people with autism and ADHD.



BlinkLab is fully developed, field tested, and ready to use

Validated in >6,000 subjects tested globally, including people with limited access to healthcare.

Remote testing

Enables accessible and global diagnostics.

Scalable solution

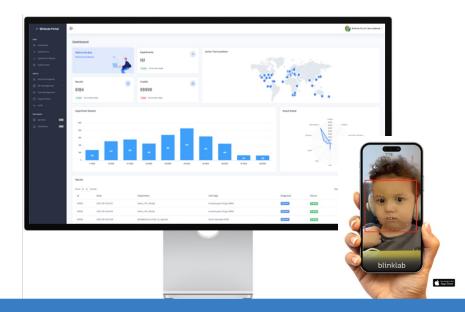
Easily adaptable for clinical and diverse research needs.

• Real-time analysis

Immediate insights in user tests and biomarker scores.

Rapid global adoption

> 40 scientific and clinical institutes, special schools and, large healthcare providers around the globe already have started implementing BlinkLab (next slide).



BlinkLab is collaborating with world-leading institutions

Since our first product launched in 2022, we have established global partnerships with >30 academic and clinical institutes.

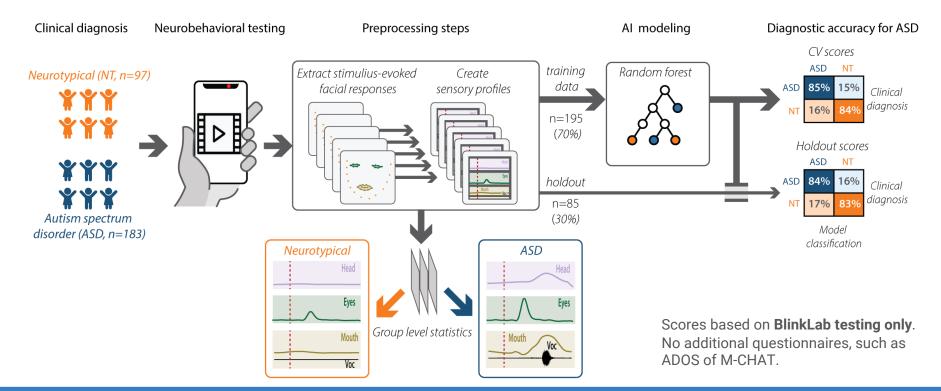




Prof. Samuel S. -H. Wang (Princeton University) "The BlinkLab app is easy to operate, substantially reduces the costs of diagnosis, and produces reliable and reproducible results."

Breakthrough data from large autism diagnostic study

In our multi-center study in non-European cohort, we attained a sensitivity of 85% and specificity of 84%



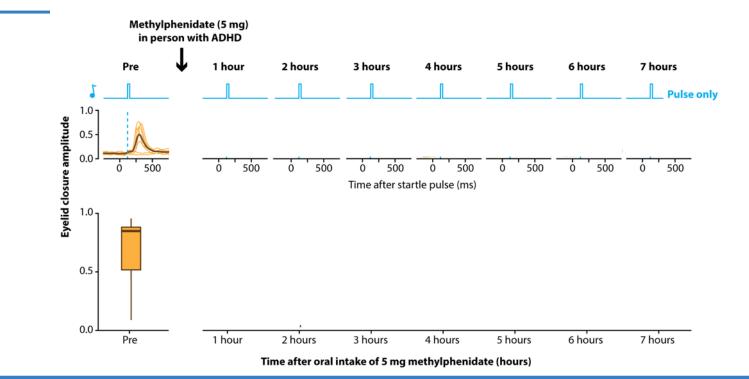
BlinkLab meets standard of care and outperforms FDA-approved digital peers

	blinklab cognoa		EarliTec Diagnostics Inc.	
Sensitivity	85%	52%	71%	
Specificity	84%	19%	81%	
Smartphone-based	Yes	Yes	No	
FDA approval	Not yet	De novo	510(k)	

We are leaders in the rapidly growing space of digital diagnostics **and** therapeutics.

First product to monitor the effect of therapy in real-time

Offers a path to even larger recurring revenues via subscription-based commercial models.



Real-time Ritalin monitoring capability builds path to recurring revenue streams.

We are experts in science, tech and commercialization

Our mission is to use neuroscience to improve the daily life of families with autism.



Henk-Jan Boele, CEO

MD, PhD, Neuroscientist and entrepreneur at Erasmus MC and Princeton University

Fifteen years of experience in neurobehavioral testing with over 35 publications. Recipient of many prestigious awards. Team leader and inventor of BlinkLab.





Anton Uvarov, COO Executive Director

MBA, PhD, Biotechnology Analyst with Citibank

Cofounder of two biotechnology companies, developed therapeutics for neurodegenerative disorders. Both successfully IPO and publicly traded.

Seuroscientific 🐺 Actinogen citibank



Bas Koekkoek, CSO

PhD, Assistant Professor of Neuroscience. Erasmus MC

Twenty-six years of experience in neurobehavioral testing with over 55 publications in IEEE and the field of neuroscience. An innovator in heart and soul. Cofounder of Neurasmus BV.





Born to code, with over 20 years of experience in software development, both as developer as well as executive.



We are backed up by an expert advisory board

World leading scientists and commercial advisors.





Brian Leedman

Experienced Chairman and co-founder of five ASX listed healthcare companies including digital healthcare company ResApp Health, acquired by Pfizer for \$180M in 2022



Company Director



Jane Morgan

Providing strategic investor and media relations services for over 16 years. Founder of JMM

JMM

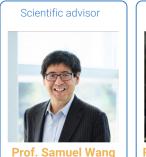




Richard Hopkins

Experienced biopharmaceutical executive with over 20 years in corporate leadership roles with public biotechnology companies.





Professor of Neuroscience at Princeton University and author of 2 bestselling hooks

PRINCETON UNIVERSITY



Scientific advisor

Prof. Chris De Zeeuw

Professor of Neuroscience at Frasmus MC and vicedirector of the NIN (Netherlands Institute of Neuroscience).

Erasmus MC

Scientific advisor



Prof. Javier Medina

Professor in neuroscience at Baylor College of Medicine in Houston.

BCM Baylor College of Medicine

Meet the whole BlinkLab team @ blinklab.org

R&D Pipeline

Our pipeline of diagnostic products, relevant development state and regulatory pathway.

	Pre-clinical development	Early clinical development	Feasibility clinical studies	Pivotal clinical studies	Regulatory approval	Post authorization
				<u> </u>		
	Diagnostic: BlinkLab Dx				510(k)/CE mark	Product launch
Autism	Subtyping: Phenotypic hete	rogeneity	1			
	New therapy evaluation		 			
		1				
	Diagnostic: BlinkLab Dx				De Novo/CE mark	Product launch
ADHD	Subtyping: Phenotypic hete	rogeneity				
	Treatment response monite	pring				
	New therapy evaluation					

Important milestones

News pipeline: Updates on regulatory studies on autism ánd ADHD, new partnerships, new opportunities

Milestone	Timeframe
Start of activities for FDA registrational study in autism (appointment of CRO, selection and appointment of clinical sited to do the study, appointment of lead clinical investigator, key opinion leaders)	1H 2024
Initiation of ADHD discovery phase study	*1Q 2024
Completion of Autism study in Morocco / EU	*1Q 2024
Completion of pilot Schizophrenia study (EU)	1H 2024
Initiation of global Schizophrenia study (potentially registrational, tbc depending on pilot study outcome)	2H 2024
FDA registrational study in Autism starts	2H 2024
CE mark submission for Autism (EU)	2H 2024
Completion of ADHD discovery phase study	2H 2024
Completion of pilot saccadometry (sporadic pupil movement) study in Alzheimer's/MCI	2H 2024
CE Mark approval (6 months post submission)	1H 2025
Initiation of FDA registrational study in ADHD	4Q 2024 / 1Q 2025
Initiation of Alzheimers/MCI saccadometry study (potentially registrational tbc depending on pilot study outcome)	4Q 2024 / 1Q 2025
FDA registration study in Autism complete	1H 2025
510k FDA submission is Autism	2H 2025
510k FDA approval in Autism (approx. 6 months after submission)	1Q 2026

*Achieved

Capital Structure

(ASX.BB1) Public Market Overview (1 May 2024) A\$0.31 Share Price 99,150,003 Shares on issue Founders' shareholding percentage 37% Founders' options on issue @ 25c 33,750,000 Chairman options @ 25c 2,000,000 Performance rights 3,000,000 Fully diluted share capital 137,900,003 Market Cap (undiluted) A\$30.7M A\$42.7M Market Cap (fully diluted)

BOARD AND KEY MANAGEMENT





Brian Leedman K Chairman

Henk-Jan Boele CEO

Anton Uvarov Executive Director



Jane Morgan Non-Executive Director



Richard Hopkins Non-Executive Director

Intellectual property

Our patents prohibit other parties to conduct neurometric testing using mobile devices.



BlinkLab has consistently prioritized the development and protection of its intellectual property since its seed funding round in August 2021. Our capital investments sourced from seed investors, government funding, and industry sponsorships - have been primarily utilized for IP and software development.

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We are represented by the US-based law firm, Meagher Emanuel Laks Goldberg & Liao, LLP, which ensures our IP protection. We have filed National Stage Applications for 2020-2021 patents across various jurisdictions including the United States, Japan, Canada, Australia, Korea, and the European Patent Office (EPO) in March 2023.



Our portfolio comprises patents filed both by Princeton University, under an exclusive license agreement, and BlinkLab itself. These patents range from systems for neurobehavioral testing to methods for measuring emotional engagement, all of which firmly establish our innovation and leadership in the field.

Patents filed by Princeton University, with an exclusive license agreement in place between Princeton University and BlinkLab:

- PCT application number PCT/US2021/058698 Filed November 10, 2021, entitled "System and Method for Remote Neurobehavioral Testing"
- US patent application number 18/036,009 Filed May 9, 2023, entitled "System and Method for Remote Neurobehavioral Testing"
- European patent application number 21892692.1 Filed March 31, 2023, entitled "System and Method for Remote Neurobehavioral Testing"
- Japanese patent application number 2023-528017 Filed May 10, 2023, entitled "System and Method for Remote Neurobehavioral Testing"
- Canadian patent application number 3,195,596 Filed April 13, 2023, entitled "System and Method for Remote Neurobehavioral Testing"
- Korean patent application number 10-2023-7018839 Filed June 2, 2023, entitled "System and Method for Remote Neurobehavioral Testing"
- Australian patent application number 2021378273 Filed May 23, 2023, entitled "System and Method for Remote Neurobehavioral Testing"

Patents filed by BlinkLab:

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- US Provisional patent application number 63/218,607 Filed on November 30, 2022, entitled "Psychopharmacological System and Method Using Eyelid Tracking"
- US Provisional patent application number 63/460,451 Filed on April 19, 2023, entitled "Method And System For Measuring Emotional Engagement"
- US Provisional patent application number 63/548,542 Filed on February 1, 2024, entitled "System And method For Detecting Neurological Condition"

For Further Information Please Contact

Henk-Jan Boele Chief Executive Officer <u>henkjan@blinklab.org</u> M: +31 71 799 6194 Brian Leedman Non-Executive Chairman brian@blinklab.org M +61 (0) 412 281 780

