Venue
RENAISSANCE BALI NUSA DUA RESORT

Address and contact
TOURISM AREA LOT SW 4-5
NUSA DUA, BALI 80363, INDONESIA

Detailed Information & Registration
https://www.worldbrainmapping.org/
Goals of Neuroscience-20, N20

(BRAIN, Spine, and Mental HEALTH)

N20 aims to contribute to President Biden’s Mental Health initiatives and Obama’s BRAIN initiative to expand action on the current and upcoming initiatives across the G20 nations, bringing the finest scientists, engineers, physicians, and surgeons across the globe in order to rapidly introduce clinical solutions for neurological disorders, which cost the world economy hundreds of billions of dollars annually.

G20 World Brain Mapping Summit was launched in 2014 by The Society for Brain Mapping and Therapeutics (SBMT) initiative.
WELCOME ADDRESS

Chairman and CEO:
Babak Kateb, Founding Chairman of the Board and Scientific Director of SBMT, President of BMF, Director of Brain Technology and Innovation Park, Director of National Center for Nano-Bio-Electronics (NCNBE) Presidente and CEO of Smart Microscopy Inc., LA, CA, USA

20th President:
Vicky Yamamoto, Cancer Scientist, USC-Keck School of Medicine; USC Norris Comprehensive Cancer Center; Senior Research Scientist, Brain Mapping Foundation, LA, CA, USA

Executive Director:
Vicky Yamamoto, Cancer Scientist, USC-Keck School of Medicine; USC Norris Comprehensive Cancer Center; Senior Research Scientist, Brain Mapping Foundation, LA, CA, USA

Middle East Brain Initiative Board Members:
Nevzat Tarhan, President of SMT| Middle East
Turker Erguzel, Co-chair of SBMT| Middle East
Fariededin Naraghi, Co-chair of SBMT| Middle East
Mohamed Fahmy, Director of SBMT| Egypt
Mohjaba Barzegar, CEO and Director of SBMT| Iran

G20/ N20 Indonesia, Executive Board Members:
The Rector of Universitas Airlangga
The Dean of Medical Faculty, Universitas Airlangga

Scientific Committee Members:
Chair: Asra Al Fauzi, MD. Ph.D.
Vice Chair: Abdullah Machin, MD. Ph.D.
Secretary: Achmad Fahmi, MD. Ph.D.
Heri Subianto, MD.
Muhammad Kamil, MD. Ph.D.

Finance Committee:
Brihastami Sawitri, MD.

Program Director:
Prastiya Indra Gunawan, MD. Ph.D.

Documentation Manager:
Martha Kurnia Kusumawardani, MD.

N20 – Indonesia |2022

NEUROSCIENCE20
(Brain, SPINE, and Mental Health)

Asra Al Fauzi | Chairman of N20 Summit 2022 - Indonesia

Excellencies, Dear Distinguished Guests, Dear colleagues, Professors, friends, ladies, and gentlemen:

I’m truly delighted to welcome all of you to our next Neuroscience (N) 20 Summit after a difficult few years for the global community. This summit will take place on the wonderful Island of Gods, Bali, Indonesia on November 13 and 14th, 2022 at Renaissance Hotel, Nusa Dua, Bali, Indonesia.

The pandemic has kept us apart – as it did with all our citizens. More than two years since the start of the pandemic, we can finally look at the future with great- or with some- optimism.

Successful vaccination campaigns and coordinated action from governments and central banks have allowed the global economy to rebound. Many of our countries have launched recovery plans to boost growth, reduce inequalities, and promote sustainability.

However, we must be aware of the challenges we face collectively as part of a global citizens. The pandemic is not over and there are still other health-related problems that are derivatives of the pandemic that has occurred. One of them is mental health, besides of course there are disorders of the brain and spine with multiple pathologies and degenerative ones, which also cause disability and mortality that puts an enormous burden on the economy.

The N20 initiative has shown their remarkable commitment to improving brain, spine, and mental care on a global level by recommending policies to the G20 countries and beyond, that help them alleviate the burden of health disease through various means including stimulating better mental health, advance neuroscience research, enhancing brain and spine innovation pathways, and improving health care treatments and rehabilitation through policies and support from the governments.

The N20 is a think tank that would also be in a position to provide governments with the expertise needed to improve brain and mental care around the globe. Develop a clear calendar of activities and form task-force groups to work on forming evidence-based policy recommendations.

However, whether it’s a pandemic or other health problems, it’s a necessity. We might be able to prevent some, but we cannot prevent them all. Business as usual will produce the usual result: a world that is unsafe, unprepared, and unfair. But with bold ideas, bold.

Commitments, and bold leadership, we can write a healthier, safer, fairer future for our children and our children’s children.

Therefore, through this extraordinary momentum, I invite all of us to be more concerned about these issues, and the world will be all the better for it, recover together, recover stronger!
WHO WE ARE?

The Group of Twenty, or the G20, is the premier forum for international economic cooperation. The G20 brings together the leaders of both developed and developing countries from every continent. Collectively, the G20 economies account for around 90% of the gross world product (GWP), 80% of world trade, two-thirds of the world population, and approximately half of the world land area. Throughout the year, representatives from G20 countries gather to discuss financial and socioeconomic issues.

Historically, the G20 was founded in 1999 at the level of Finance Ministers and Central Bank Governors, the G20 gathered for high level discussions on macro-financial issues. In the wake of the 2008 global financial crises, the G20 was elevated to include the leaders of member countries. The first G20 Leaders’ Summit took place in Washington D.C in November 2008. Consequently, the G20 agenda expanded beyond macro-financial issues, to include socioeconomic and development issues.

The presidency of the G20 rotates between member countries every year. The presidency plays a leading role in setting the agenda and organizing the Leaders’ Summit, which is attended by the G20 Heads of State or Government. At the Summit, the leaders issue a declaration, or communiqué, based on policy discussions at meetings held throughout the year. In the run-up to the Summit, the presidency hosts several meetings featuring Ministers, senior government officials as well as civil society representatives. At the government level, the G20 work is organized around the Finance and Sherpa Tracks, while civil society assembles through Engagement Groups.

G20 Members are Argentina, Australia, Brazil, Canada, China, France, Germany, India, Indonesia, Italy, Japan, Republic of Korea, Mexico, Russia, Saudi Arabia, South Africa, Turkey, the United Kingdom, the United States and the European Union.

Ten official engagement groups; Business 20 (B20), Youth 20 (Y20), Labour 20 (L20), Think 20 (T20), Civil 20 (C20), Women 20 (W20), Science 20 (S20), Urban 20 (U20), Parliamentary 20 (P20), Supreme Audit Institution (SAI20) and many Non-official engagement groups of different interests are carrying out different forms of activities throughout the year in order to provide the leaders during the summit with specific recommendations of their concerns.

The 17th G20 Heads of State and Government Summit will take place at November 2022 in Bali, Indonesia. The Summit will be the pinnacle of the G20 process and intense work carried out within the Ministerial Meetings, Working Groups, and the different Engagement Groups throughout the year.
Neuroscience20 Initiative of SBMT is a truly impressive approach toward building global consortia of Brain Initiatives in order to create a united front for tackling devastating neuro-psychiatric disorders worldwide.

The 9th annual N20 program covers all aspects of brain mapping and therapeutics from imaging, connectomics, mathematical modeling, and artificial intelligence to Nanoneuroscience, Neuro photonics and genomics. The program is aimed at exchanging scientific progress across disciplines of science and technology, which could enable scientists to rapidly introduce new diagnostics and therapeutics.

“The human and financial cost of the neurological disorders to the world is enormous; the cost of care of near 5.5 million Alzheimer’s patients in the US alone is now close to $200 billion annually; this cost will be closer to $1 trillion in 10 years,” said Dr. Babak Kateb, Founding Chairman of the Board and Scientific Director of SBMT, President of BMF, Director of NCNBE and Director of Brain Technology and Innovation Park (BTIP), “in 2015, the cost of dementia to the world economy was $818 million which corresponds to the care for near 46.8 million patients; in 2030, this cost will be $2 trillion for dementia alone; this means if dementia was a country, it would be number 18 on the Gross Domestic Product (GDP)”.

SBMT has been on the forefront of establishing global Brain Initiatives in the last 15 years and was a key player in formulating and supporting Obama’s BRAIN Initiative.

Scientific delegations across the G20 will be attending the symposium; the registration for N20 summit will be closed on July 9th 2022.
Founding societies and Partner Societies for N20
Mission

- Build a global alliance for brain, spine and mental health/illness

Vision

- Provide accurate and up to date resources / data to G20 countries
- Spread awareness amongst all to address mental/psychological issues

Objectives

- Set unified standard amongst all, for training, prevention, care, and advance therapeutics related to brain, spine and mental disorders including physicians, engineers, surgeons, nurses, chiropractors, physical therapists, osteopaths, physiologists, and other related disciplines.

- Facilitating investment and commercialization of neuro-technologies for brain, spine and mental health/illness.

- Educate professionals, patients and families about the latest state of science, technology, innovation and policies in clinical neuroscience (brain, spine and mental health/illness).
N20 Annual Summits

Scientific Program

N20 Summits is composed of multiple sessions, 1st Day one will be about regional based discussions. And 2nd Day is a topic-based discussion. This summit is a program that cover BRAIN, SPINE and Mental Health fields.

Target Audience

» Neurologist and SPINE Practitioners.
» Global Neuroscientist leaders.
» Health Economists.
» Public Health Leaders.
» Health Strategic planners.
» Neuro Industrial Leaders and Investors.
» Government Health Officials and Legislators.
» Non-Government Societies

Recommendations and Publication

Society for Brain Mapping and Therapeutics (SBMT) proposes the Brain, Spine and Mental Health Screening (NEUROSCREEN) as a multi-faceted approach in a resolution report annually. The approved N20 resolutions for each summit will be published every year in a peer reviewed journal to be available for concerned and interested people and organizations. You can find the latest published report in journal of Alzheimer disease: [https://pubmed.ncbi.nlm.nih.gov/35034899/](https://pubmed.ncbi.nlm.nih.gov/35034899/)

Goal of NEUROSCREENING

Operationalizing NEUROSCREEN is expected to result in reduced healthcare costs and improving quality of life at national and later, global scales.

How will we ensure continuity?

N20 encourages a consortium approach to research and development.

It advocates for a global harmonization of the related policies/standardization of data.

We encourage a neuro-economical assessment of the future impact of disease, diagnostics and prevention as well as facilitating translation and commercialization of technologies across disciplines of science to rapidly identify and introduce new generation of therapeutics including stem cells, nanotechnology, device, and imaging (a nanobioelectronic consortium/ company spinoffs).

N20 advocates for unifying global regulations and guidelines on clinical trials and drug/device combination discovery and advancing innovation in brain, spine, and mental health through a global partnership and new funding initiatives between academic centers, industry, non-profit organizations, and government agencies.

Resources and Supporting Papers of Previous summits

2019 Japan amendment to the 2018 Resolution (download)

Nature Biotechnology (download)

2018 Argentina Resolution (download)

A proposed G20 priority due to Major Impact of the Cost of Neurological Disorders on the World Economy (download)
# G20/Neuroscience20 (Brain, Spine, and Mental Health) Program Structure

**Day 1 – November 13th, 2022**

7:00 AM – 7:30 PM

(Indonesia Local Time)

<table>
<thead>
<tr>
<th>START Time: Central Indonesia Time (GMT+8)</th>
<th>Duration</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>07:00 AM</td>
<td>30 Min</td>
<td>Day One - Registration-Dr. Asra Fauzi &amp; Dr. Keerthy Sunder</td>
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<tr>
<td>07:30 AM</td>
<td>30 Min</td>
<td>Opening speech</td>
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<tr>
<td>Dr. Asra Fauzi (Chair ), Prof. Budi Santoso (Dean of Medical Faculty, Airlangga University)</td>
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<tr>
<td>8:00:00 AM</td>
<td>30 Min</td>
<td>First Keynote Speaker (Day 1) : Dr. Ali Gufron Mukti; Director of Indonesia Universal Health Care System ; &quot;UHC Coverage in Developing Countries: Future Challenges&quot;</td>
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<tr>
<td>08:30 AM</td>
<td>15 Min</td>
<td>Day 1, Session 1: Indonesian BRAIN INITIATIVE</td>
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<tr>
<td>Session Chair: Dr. Asra Fauzi; Co-Chair: Dr. Abdullah Machin; Fellow- Dr. Muhammad Kamil</td>
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<tr>
<td>09:45:00 AM</td>
<td>15 Min</td>
<td>Discussion Board</td>
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<tr>
<td>10:00:00 AM</td>
<td>15 Min</td>
<td>BREAK</td>
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<tr>
<td>10:15 AM</td>
<td>15 Min</td>
<td>Day 1, Session 2: N20 Brain &amp; Mental Health Initiatives</td>
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<tr>
<td>Session Chairs: Dr. Dave Baron &amp; Dr. Asra Fauzi; Co-Chair: Dr. Keerthy Sunder; Fellow- Dr. Jothsna Bodhanapati; Intern- Nima Manavi</td>
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<tr>
<td>11:30:00 AM</td>
<td>15 Min</td>
<td>Discussion Board</td>
</tr>
<tr>
<td>11:45 AM</td>
<td>15 Min</td>
<td>Day 1, Session 3: Middle East BRAIN INITIATIVE (Egypt, Turkey, Iran)</td>
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<tr>
<td>Session Chair: Prof. Nevzat Tarhan; Co-Chairs, Dr. Babak Kateb, Mojtaba Barzegar Msc Fellows- Dr. Muhammad Kamil; Intern- Lila Kendall and Nima Manavi</td>
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<tr>
<td>1:15:00 PM</td>
<td>15 Min</td>
<td>Discussion Board</td>
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<tr>
<td>1:30:00 PM</td>
<td>60 Min</td>
<td>Lunchtime - Buffet</td>
</tr>
<tr>
<td>2:30:00 PM</td>
<td>15 Min</td>
<td>Day 1, Session 4: India Brain Initiative</td>
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<tr>
<td>Session Chairs: Dr. Keerthy Sunder &amp; Dr. Pravat Mandal; Fellow- Dr. Jothsna Bodhanapati</td>
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<tr>
<td>3:45:00 PM</td>
<td>15 Min</td>
<td>Discussion Board</td>
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<tr>
<td>4:00:00 PM</td>
<td>15 Min</td>
<td>BREAK</td>
</tr>
<tr>
<td>4:15:00 PM</td>
<td>30 Min</td>
<td>Second Keynote Speaker (Day 1): Dr. Keerthy Sunder- &quot;Overview of Global Mental Health Challenges and Opportunities in the Post Covid Era&quot;</td>
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<tr>
<td>04:45 PM</td>
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<td>Day 1, Session 5: N20 Brain &amp; Mental Health Initiatives</td>
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<tr>
<td>Session Chair: Dr. Keerthy Sunder &amp; Dr. David Rabin Co-Chair- Dr. Nicole Jafari, Dr.Kuldip Sidhu Fellows- Dr. Jothsna Bodhanapati ; Intern- Nima Manavi</td>
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<tr>
<td>6:15:00 PM</td>
<td>15 Min</td>
<td>Discussion Board</td>
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<td>START Time : Central Indonesia Time (GMT+8)</td>
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<td>Event</td>
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<tr>
<td>07:30 AM</td>
<td>30 Min</td>
<td>Day Two- Registration- Dr. Asra Fauzi &amp; Dr. Keerthy Sunder</td>
</tr>
<tr>
<td>08:00 AM</td>
<td>30 Min</td>
<td>First Keynote Speaker (Day 2) : Dr. Vicky Yamamoto- The Overview of President Biden's Cancer Moonshot Initiative</td>
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<tr>
<td>08:30 AM</td>
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<td>Day 2, Session 1: American Cancer Moonshot &amp; Brain INITIATIVE Session Chairs: Dr. Babak Kateb &amp; Dr. Eliashiv Dawn &amp; Dr. Vicky Yamamoto Fellows- Dr. Jothsna Bodhanapati; Intern- Nima Manavi</td>
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<tr>
<td>09:45 AM</td>
<td>15 Min</td>
<td>Discussion Board</td>
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<tr>
<td>10:00 AM</td>
<td>15 Min</td>
<td>BREAK</td>
</tr>
<tr>
<td>10:15 AM (Bali)</td>
<td>15 Min</td>
<td>Day 2, Session 2: European BRAIN INITIATIVE Session Chair: Dr. Vasileios Katsaros &amp; Dr. Paul Cassedy- Fellow- Dr. Jothsna Bodhanapati ; Intern- Nima Manavi</td>
</tr>
<tr>
<td>11:45 AM</td>
<td>15 Min</td>
<td>Discussion Board</td>
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<tr>
<td>12:00 AM</td>
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<td>Day 2, Session 3: Indonesia BRAIN INITIATIVE (Forum 2) Session Chair: Dr. Sri Maliawan Co-chair: Dr. M. Wihasto Suryaningtyas Fellow- Dr. Muhammad Kamil</td>
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<tr>
<td>1:15:00 PM</td>
<td>15 Min</td>
<td>Discussion Board</td>
</tr>
<tr>
<td>1:30:00 PM</td>
<td>30 Min</td>
<td>Second Keynote Speaker (Day 2): Dr. Robert Hariri -&quot;The future of Cell-based Therapies in Neurological Disorders&quot;</td>
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<tr>
<td>2:00:00 PM</td>
<td>60 Min</td>
<td>Lunchtime -Buffet</td>
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<tr>
<td>03:00 PM</td>
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<td>Day 2, Session 4: Indonesian Brain Initiative (Forum 3) Session Chair: Dr. Taufik Pasiak Co-Chair: Dr. Mursyid Bustami Fellow- Dr. Muhammad Kamil</td>
</tr>
<tr>
<td>4:15:00 PM</td>
<td>15 Min</td>
<td>Discussion Board</td>
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<tr>
<td>4:30:00 PM</td>
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<td>Day 2, Session 5: SBMT Ukraine Humanitarian Mission &amp; N 20 Resolution Panel Discussion Session Chairs: Dr. Babak Kateb, Dr. Keerthy Sunder &amp; Dr. Asra Fauzi Fellows- Dr. Muhammad Kamil, Dr. Jothsna Bodhanapati</td>
</tr>
<tr>
<td>4:45:00 PM</td>
<td>15 Min</td>
<td>Panel Discussion Ukraine Humanitarian Mission for Mental Health - Dr. Babak Kateb &amp; Dr. Keerthy Sunder, Ukraine Officials attending G20</td>
</tr>
<tr>
<td>5:00 PM</td>
<td>15 Min</td>
<td>Panel Discussion - N20 Resolution</td>
</tr>
</tbody>
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Neuroscience20
(Brain, Spine and Mental Health)
November 13-14th, 2022
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Keynote Speakers

Dr. Ali Gufron Mukti

Dr. Vicky Yamamoto

Dr. Keerthy Sunder

Dr. Robert Hariri