

1. Record Nr.	UNINA9910782498103321
Autore	Wu Zhijun <1956->
Titolo	Lecture notes on computational structural biology [[electronic resource] /] / Zhijun Wu
Pubbl/distr/stampa	Singapore ; ; Hackensack, NJ, : World Scientific, c2008
ISBN	1-281-96817-X 9786611968175 981-281-478-7
Descrizione fisica	1 online resource (244 p.)
Disciplina	572.80285
Soggetti	Computational biology Structural bioinformatics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. Introduction. 1.1. Protein structure. 1.2. Structure determination. 1.3. Dynamics simulation. 1.4. The myth of protein folding -- 2. X-ray crystallography computing. 2.1. The phase problem. 2.2. Least squares solutions. 2.3. Entropy maximization. 2.4. Indirect methods -- 3. NMR structure determination. 3.1. Nuclear magnetic resonance. 3.2. Distance geometry. 3.3. Distance-based modeling. 3.4. Structural analysis -- 4. Potential energy minimization. 4.1. Potential energy function. 4.2. Local optimization. 4.3. Global optimization. 4.4. Energy transformation -- 5. Molecular dynamics simulation. 5.1. Equations of motion. 5.2. Initial-value problem. 5.3. Boundary-value problem. 5.4. Normal mode analysis -- 6. Knowledge-based protein modeling. 6.1. Sequence/structural alignment. 6.2. Fold recognition/inverse folding. 6.3. Knowledge-based structural refinement. 6.4. Structural computing and beyond.
Sommario/riassunto	While the field of computational structural biology or structural bioinformatics is rapidly developing, there are few books with a relatively complete coverage of such diverse research subjects studied in the field as X-ray crystallography computing, NMR structure determination, potential energy minimization, dynamics simulation, and knowledge-based modeling. This book helps fill the gap by

providing such a survey on all the related subjects. Comprising a collection of lecture notes for a computational structural biology course for the Program on Bioinformatics and Computational Biology at low

2. Record Nr.	UNINA9910792966403321
Titolo	Theoretical scholarship and applied practice // edited by Sarah Pink, Vaike Fors, and Tom O'Dell
Pubbl/distr/stampa	New York ; ; Oxford, [England] : , : Berghahn Books, , 2017 ©2017
ISBN	1-78920-528-X
Descrizione fisica	1 online resource (246 pages) : illustrations
Collana	Studies in Public and Applied Anthropology ; ; Volume 11
Disciplina	301
Soggetti	Applied anthropology Public anthropology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Frontmatter -- CONTENTS -- List of Illustrations -- Acknowledgements -- Part I. Theoretical Scholarship and Applied Practice: Opportunities, Ethics and Entanglements -- Introduction: Theoretical Scholarship and Applied Practice: Opportunities and Challenges of Working in the In-between -- Chapter 1: Ethics in an Uncertain World: Between Theory and Practice -- Part II. Making Contact and Making Sense -- Chapter 2: Workshops as Nodes of Knowledge Co-production: Beyond Ideas of Automagical Synergies -- Chapter 3: The Conversation Analytic Role-play Method: Simulation, Endogenous Impact and Interactional Nudges -- Chapter 4: Making Theory, Making Interventions: Doing Applied Scholarship at the In-between in Safety Research -- Part III. Working in Interdisciplinary Teams -- Chapter 5: From Emplaced Knowing to Interdisciplinary Knowledge: Sensory Ethnography in Energy Research -- Chapter 6: Working Across Disciplines: Using Visual Methods in Participatory Frameworks -- Part IV. Letting Go and Moving Forward -- Chapter 7: How to Gain Traction? From Theoretical Scholarship to

Applied Outcomes in Energy Demand and Housing Research -- Chapter 8: The Social Life of HOMAGO -- Chapter 9: Entanglements: Issues in Applied Research and Theoretical Scholarship -- Part V. Afterword -- Chapter 10: Afterword: The Deep Dynamics of the In-between -- Index

Sommario/riassunto

Academics across the globe are being urged by universities and research councils to do research that impacts the world beyond academia. Yet to date there has been very little reflection amongst scholars and practitioners in these fields concerning the relationship between the theoretical and engaged practices that emerge through such forms of scholarship. Theoretical Scholarship and Applied Practice investigates the ways in which theoretical research has been incorporated into recent applied practices across the social sciences and humanities. This collection advances our understanding of the ethics, values, opportunities and challenges that emerge in the making of engaged and interdisciplinary scholarship.

3. Record Nr.	UNINA9910346753903321
Autore	Atsuyoshi Shimada
Titolo	Neuroimmune Interface in Health and Diseases
Pubbl/distr/stampa	Frontiers Media SA, 2017
Descrizione fisica	1 online resource (174 p.)
Collana	Frontiers Research Topics
Soggetti	Medicine
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	It is now well appreciated that the immune system, in addition to its traditional role in defending the organism against pathogens, communicate in a well-organized fashion with the brain to maintain homeostasis and regulate a set of neural functions. Perturbation in this brain-immune interactions due to inflammatory responses may lead to psychiatric and neurological disorders. Microglia are one of the

essential cells involved in the brain-immune interactions. Microglial cells are now not simply regarded as resident tissue macrophages in the brain. These cells are derived from myeloid progenitor cells in the yolk sac in early gestation, travel to the brain parenchyma and interact actively with neurons during the critical period of neurogenesis. Microglia provide a trophic support to developing neurons and take part in the neural wiring through the activity-dependent synapse elimination via direct neuron-microglia interactions. Altered microglial functions including changes in the gene expression due to early life inflammatory events or psychological and environmental stressors can be causally related to neurodevelopmental diseases and mental health disorders. This type of alterations in the neural functions can occur in the absence of infiltration of inflammatory cells in the brain parenchyma or leptomeninges. In this sense, the pathogenetic state underlying a significant part of psychiatric and neurological diseases may be similar to "para-inflammation", an intermediate state between homeostatic and classical inflammatory states as defined by Ruslan Medzhitov (Nature 454:428-35, 2008). Therefore, it is important to study how systemic inflammation affects brain health and how local peripheral inflammation induces changes in the brain microenvironment. Chronic pain is also induced by disturbance in otherwise well-organized multisystem interplay comprising of reciprocal neural, endocrine and immune interactions. Especially, early-life insults including exposure to immune challenges can alter the neuroanatomical components of nociception, which induces altered pain response later in life. Recently the discrete roles of microglia and blood monocyte-derived macrophages are being defined. The distinction may be further highlighted by disorders in which the brain parenchymal tissue is damaged. Therefore, studies investigating the dynamics of immune cells in traumatic brain injury and neurotropic viral infections including human immunodeficiency virus, etc. as well as neurodegenerative diseases such as amyotrophic lateral sclerosis are promising to clarify the interplay between the central nervous and immune systems. The understanding of the histological architecture providing the infrastructure of such neuro-immune interplay is also essential. This Frontiers research topic brings together fourteen articles and aims to create a platform for researchers in the field of psychoneuroimmunology to share the recent theories, hypotheses and future perspectives regarding open questions on the mechanisms of cell-cell interactions with chemical mediators among the nervous, immune and endocrine systems. We hope that this platform would reveal the relevance of the studies on multisystem interactions to enhance the understanding of the mechanisms underlying a wide variety of neurological and psychiatric disorders.

4. Record Nr.	UNINA9910878050203321
Autore	Freymueller Jeffrey T
Titolo	Gravity, Positioning and Reference Frames : Proceedings of the IAG Symposia - GGHS2022: Gravity, Geoid, and Height Systems 2022, Austin, TX, United States of America, September 12 – 14, 2022; IAG Commission 4: Positioning and Applications, Potsdam, Germany, September 5 – 8, 2022; REFAG2022: Reference Frames for Applications in Geosciences, Thessaloniki, Greece, October 17 – 20, 2022 // edited by Jeffrey T. Freymueller, Laura Sánchez
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	3-031-63855-7
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (251 pages)
Collana	International Association of Geodesy Symposia, , 2197-9359 ; ; 156
Altri autori (Persone)	SanchezLaura
Disciplina	550
Soggetti	Geophysics Geotechnical engineering Geographic information systems Geotechnical Engineering and Applied Earth Sciences Geographical Information System
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	GGHS2022: Gravity Field -- A Comparison of Pointwise and Levelling Assisted Regional Realisations of IHRS With a Case Study Over Sweden -- New Tidal Analysis of Superconducting Gravimeter Records at Metsähovi, Finland -- Development of the National Gravimetric Geoid Model for the Kingdom of Saudi Arabia -- Comparisons of Absolute Gravimeters as a Key Component of the International Terrestrial Gravity Reference Frame (ITGRF) Shown on the Example of the WET-CAG2021 at Wettzell, Germany -- Newly Acquired Gravity Data in Support of the GeoNetGNSS CORS Network in Northern Greece -- Strapdown Airborne Gravimetry Based on Aircrafts and UAVs: Postprocessing Algorithms and New Results -- Estimation of Temporal Variations in the Earth's Gravity Field Using Novel Optical Clocks Onboard of Low Earth Orbiters -- Hybrid Geoid Modeling for the Kingdom of Saudi Arabia -- IAG Commission 4: Positioning and Applications -- Almost-Instantaneous

PPP-RTK Without Atmospheric Corrections -- Multi-GNSS 1
Tomography: Case Study of the July 2021 Flood in Germany --
Quantum Diamond Magnetometry for Navigation in GNSS Denied
Environments -- Feasibility of CSAC-Assisted GNSS Receiver
Fingerprinting -- On the Impact of GNSS Receiver Settings on the
Estimation of Codephase Center Corrections -- Quality Control
Methods for Climate Applications of Geodetic Tropospheric Parameters
-- REFAG2022: Reference Frames -- Impact of Coordinate- and
Tropospheric Ties on the Rigorous Combination of GNSS and VLBI --
How Do Atmospheric Tidal Loading Displacements Vary Temporally as
well as Across Different Weather Models? -- Alternative Strategies for
the Optimal Combination of GNSS and Classical Geodetic Networks: A
Case-study in Greece -- A Concept of Precise VLBI/GNSS Ties with
Micro-VLBI -- Status of the SIRGAS Reference Frame: Recent
Developments and New Challenges -- A Review of Space Geodetic
Technique Seasonal Displacements Based on ITRF2020 Results --
Validation of Reference Frame Consistency of GNSS Service Products --
Intra-Technique Combination of VLBI Intensives and Rapid Data to
Improve the Temporal Regularity and Continuity of the UT1-UTC Series
-- Automatic Determination of the SLR Reference Point at Côte d'Azur
Multi-technique Geodetic Observatory -- The K-band (24 GHz)
Celestial Reference Frame Determined from Very Long Baseline
Interferometry Sessions Conducted over the Past 20 Years -- VGOS
VLBI Intensives Between macgo12m and wetz13s for the Rapid
Determination of UT1-UTC -- Correcting Non-tidal Surface Loading in
GNSS repro3 and Comparison with ITRF2020 -- Upgrading the
Metsähovi Geodetic Research Station -- Assessing the Potential of VLBI
Transmitters on Next Generation GNSS Satellites for Geodetic Products
-- Potential of Lunar Laser Ranging for the Determination of Earth
Orientation Parameters.

Sommario/riassunto

This open access volume contains a selection of papers presented at three different IAG Symposia held in 2022: GGHS2022 – Gravity, Geoid, and Height Systems 2022, Austin, TX, United States of America, September 12 – 14, 2022; IAG Commission 4 – Positioning and Applications, Potsdam, Germany, September 5 – 8, 2022; and REFAG2022 – Reference Frames for Applications in Geosciences, Thessaloniki, Greece, October 17 – 20, 2022. Two of these three conferences were planned for 2020 or 2021, but had to be postponed due to the COVID19 pandemic. They therefore became an important opportunity for the global geodesy community to rebuild professional networks and to resume face-to-face interaction. Scientists from around the world were delighted to once again gather together to present their research progress and findings, and discuss scientific issues.
