

1. Record Nr.	UNINA9910703101703321
Titolo	Federal information security [[electronic resource]] : current challenges and future policy considerations : hearing before the Subcommittee on Government Management, Organization, and Procurement of the Committee on Oversight and Government Reform, House of Representatives, One Hundred Eleventh Congress, second session, March 24, 2010
Pubbl/distr/stampa	Washington : , : U.S. G.P.O., , 2011
Descrizione fisica	1 online resource (iii, 106 pages) : illustrations
Soggetti	Electronic government information - Access control - United States Database security - Government policy - United States Administrative agencies - Information technology - United States
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from title screen (viewed on July 26, 2011). Paper version available for sale by the Supt. of Docs., U.S. G.P.O. "Serial no. 111-145."
Nota di bibliografia	Includes bibliographical references.

2. Record Nr.	UNINA9910557734803321
Autore	Noga Brian R
Titolo	Neuromodulatory Control of Brainstem Function in Health and Disease
Pubbl/distr/stampa	Frontiers Media SA, 2020
Descrizione fisica	1 online resource (449 p.)
Soggetti	Neurosciences Science: general issues
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	<p>The brainstem is a conduit connecting higher brain centers, cerebellum and spinal cord and provides the main sensory and motor innervation to the face, head and neck via the cranial nerves. It plays a pivotal role in the regulation of respiration, locomotion, posture, balance, arousal (alertness, awareness and consciousness), sensory information processing (nociception, etc.), autonomic functions (including control of bowel, bladder, blood pressure and heart rate) and is responsible for the regulation of numerous reflexes including swallowing, coughing and vomiting. It is controlled by higher brain centers originating from cortical and subcortical regions including the basal ganglia and diencephalon as well as feedback loops from the cerebellum and spinal cord. A modulatory control of brainstem output can be accomplished by affecting individual neurons and consequently, the operation of neural microcircuits and behavior. This is achieved by altering cellular excitability, synaptic transmission (release probability, postsynaptic receptor responsiveness, thus altering synaptic strength and efficacy) and network properties. Such dynamic control provides flexibility of the nervous system to adapt neural output according to the functional requirements and/or demands of the individual to achieve the desired behavioral state in a changing environment. Neuromodulation can be achieved by the "classical" neurotransmitters glutamate and GABA (gamma-amino butyric acid) by primary excitation and inhibition of the</p>

"anatomical network", but can also be achieved through the use of transmitters acting on G- protein coupled receptors. Such neuromodulators include the monoamines (serotonin, noradrenaline and dopamine), acetylcholine, but also glutamate and GABA. In addition, neuropeptides and purines act as neuromodulators. Other chemical mediators such as nitric oxide and growth factors may also have similar actions. The aim of this Research Topic is to highlight recent advances in our understanding of the intrinsic and extrinsic neuromodulatory systems affecting brainstem function from the anatomical, physiological and pharmacological perspective and to emphasize how these advances strengthen, modify or challenge existing conceptual models of sensorimotor and autonomic control.
