

Resource Summary Report

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inGAP

RRID:SCR_005261

Type: Tool

Proper Citation

inGAP (RRID:SCR_005261)

Resource Information

URL: <http://ingap.sourceforge.net/>

Proper Citation: inGAP (RRID:SCR_005261)

Description: Software mining pipeline guided by a Bayesian principle to detect single nucleotide polymorphisms, insertion and deletions by comparing high-throughput pyrosequencing reads with a reference genome of related organisms. This pipeline is extended to identify and visualize large-size structural variations, including insertions, deletions, inversions and translocations.

Abbreviations: inGAP

Synonyms: inGAP-sv, inGAP-sv: structural variation detection and visualization, integrative next-generation genome analysis pipeline

Resource Type: software resource

Keywords: structural variation, genome, next-generation sequence, genome analysis, alignment, single nucleotide polymorphism, insertion, deletion, indel, inversion, translocation, windows, linux, macos/x, bio.tools

Funding:

Resource Name: inGAP

Resource ID: SCR_005261

Alternate IDs: OMICS_00319, biotools:ingap

Alternate URLs: <https://bio.tools/ingap>

Record Creation Time: 20220129T080229+0000

Record Last Update: 20250420T014247+0000

Ratings and Alerts

No rating or validation information has been found for inGAP.

No alerts have been found for inGAP.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 28 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Mediavilla I, et al. (2024) Composition, Optical Resonances, and Doping of InP/InGaP Nanowires for Tandem Solar Cells: a Micro-Raman Analysis. ACS nano, 18(14), 10113.

Petropavlovskaia M, et al. (2024) Characterization of MSCs expressing islet neogenesis associated protein (INGAP): INGAP secretion and cell survival in vitro and in vivo. Heliyon, 10(15), e35372.

Akin J, et al. (2024) InGaP $\lambda/2$ integrated photonics platform for broadband, ultra-efficient nonlinear conversion and entangled photon generation. Light, science & applications, 13(1), 290.

Ding SW, et al. (2024) High-Q cavity interface for color centers in thin film diamond. Nature communications, 15(1), 6358.

Leshchenko ED, et al. (2023) An Overview of Modeling Approaches for Compositional Control in III-V Ternary Nanowires. Nanomaterials (Basel, Switzerland), 13(10).

Li L, et al. (2022) Colocalized, bidirectional optogenetic modulations in freely behaving mice with a wireless dual-color optoelectronic probe. Nature communications, 13(1), 839.

Cheng Z, et al. (2021) Photon Recycling in Semiconductor Thin Films and Devices. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 8(20), e2004076.

Timò G, et al. (2021) Study of the Cross-Influence between III-V and IV Elements Deposited

in the Same MOVPE Growth Chamber. *Materials* (Basel, Switzerland), 14(5).

Fox NP, et al. (2020) Transformation of a temporal speech cue to a spatial neural code in human auditory cortex. *eLife*, 9.

Su WY, et al. (2020) Temperature-dependent charge-carrier transport between Si- δ -doped layers and AlGaAs/InGaAs/AlGaAs quantum well with various space layer thicknesses measured by Hall-effect analysis. *Scientific reports*, 10(1), 12503.

Welser RE, et al. (2019) Design and Demonstration of High-Efficiency Quantum Well Solar Cells Employing Thin Strained Superlattices. *Scientific reports*, 9(1), 13955.

Varadhan P, et al. (2019) An efficient and stable photoelectrochemical system with 9% solar-to-hydrogen conversion efficiency via InGaP/GaAs double junction. *Nature communications*, 10(1), 5282.

Wu PC, et al. (2019) Dynamic beam steering with all-dielectric electro-optic III-V multiple-quantum-well metasurfaces. *Nature communications*, 10(1), 3654.

Fikouras AH, et al. (2018) Non-obstructive intracellular nanolasers. *Nature communications*, 9(1), 4817.

Xu J, et al. (2018) Effect of Alpha-Particle Irradiation on InGaP/GaAs/Ge Triple-Junction Solar Cells. *Materials* (Basel, Switzerland), 11(6).

Ciret C, et al. (2018) Physical origin of higher-order soliton fission in nanophotonic semiconductor waveguides. *Scientific reports*, 8(1), 17177.

Kim Y, et al. (2017) Ge nanopillar solar cells epitaxially grown by metalorganic chemical vapor deposition. *Scientific reports*, 7, 42693.

Geum DM, et al. (2016) Ultra-high-throughput Production of III-V/Si Wafer for Electronic and Photonic Applications. *Scientific reports*, 6, 20610.

Tex DM, et al. (2016) Internal luminescence efficiencies in InGaP/GaAs/Ge triple-junction solar cells evaluated from photoluminescence through optical coupling between subcells. *Scientific reports*, 6, 38297.

Fang X, et al. (2016) Genome-wide characterization of soybean P 1B -ATPases gene family provides functional implications in cadmium responses. *BMC genomics*, 17, 376.