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Contine un archivo digital libre de las revistas biomedicas y de las ciencias de la vida (16.000.000 citas de publicaciones) .

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Criterios de selección de revistas

Todo el contenido en PubMed viene en última instancia de los editores de diarios biomédicos, y los diarios que deben ser incluidos en MEDLINE están sujetos a un proceso de selección. El *Fact Sheet* u *hoja del hecho* en la selección de diario para el índice Medicus/MEDLINE describe la política, los criterios, y los procedimientos de la selección del diario para el envío de los datos

¿Cómo se actualiza?

- Prepublicación
- Abstracts
- Editores – adicionadores

Landslide triggering by rain infiltration

Richard M. Iverson

U.S. Geological Survey, Vancouver, Washington

Abstract. Landsliding in response to rainfall involves physical processes that operate on disparate timescales. Relationships between these timescales guide development of a mathematical model that uses reduced forms of Richards equation to evaluate effects of rainfall infiltration on landslide occurrence, timing, depth, and acceleration in diverse situations. The longest pertinent timescale is A/D_0, where D_0 is the maximum hydraulic diffusivity of the soil and A is the catchment area that potentially affects groundwater pressures at a prospective landslide slip surface location with areal coordinates x, y and depth H. Times greater than A/D_0 are necessary for establishment of steady background water pressures that develop at (x, y, H) in response to rainfall averaged over periods that commonly range from days to many decades. These steady groundwater pressures influence the propensity for landsliding at (x, y, H), but they do not trigger slope failure. Failure results from rainfall over a typically shorter timescale H^2/D_0 associated with transient pore pressure transmission during and following storms. Commonly, this timescale ranges from minutes to months. The shortest timescale affecting landslide responses to rainfall is $\sqrt{H/g}$, where g is the magnitude of gravitational acceleration. Postfailure landslide motion occurs on this timescale, which indicates that the thinnest landslides accelerate most quickly if all other factors are constant. Effects of hydrologic processes on landslide processes across these diverse timescales are encapsulated by a response function, $R(t^*) = \sqrt{t^*/\pi}\,\exp(-1/t^*) - \mathrm{erfc}\,(1/\sqrt{t^*})$, which depends only on normalized time, t^*. Use of $R(t^*)$ in conjunction with topographic data, rainfall intensity and duration information, an infinite-slope failure criterion, and Newton's second law predicts the timing, depth, and acceleration of rainfall-triggered landslides. Data from contrasting landslides that exhibit rapid, shallow motion and slow, deep-seated motion corroborate these predictions.

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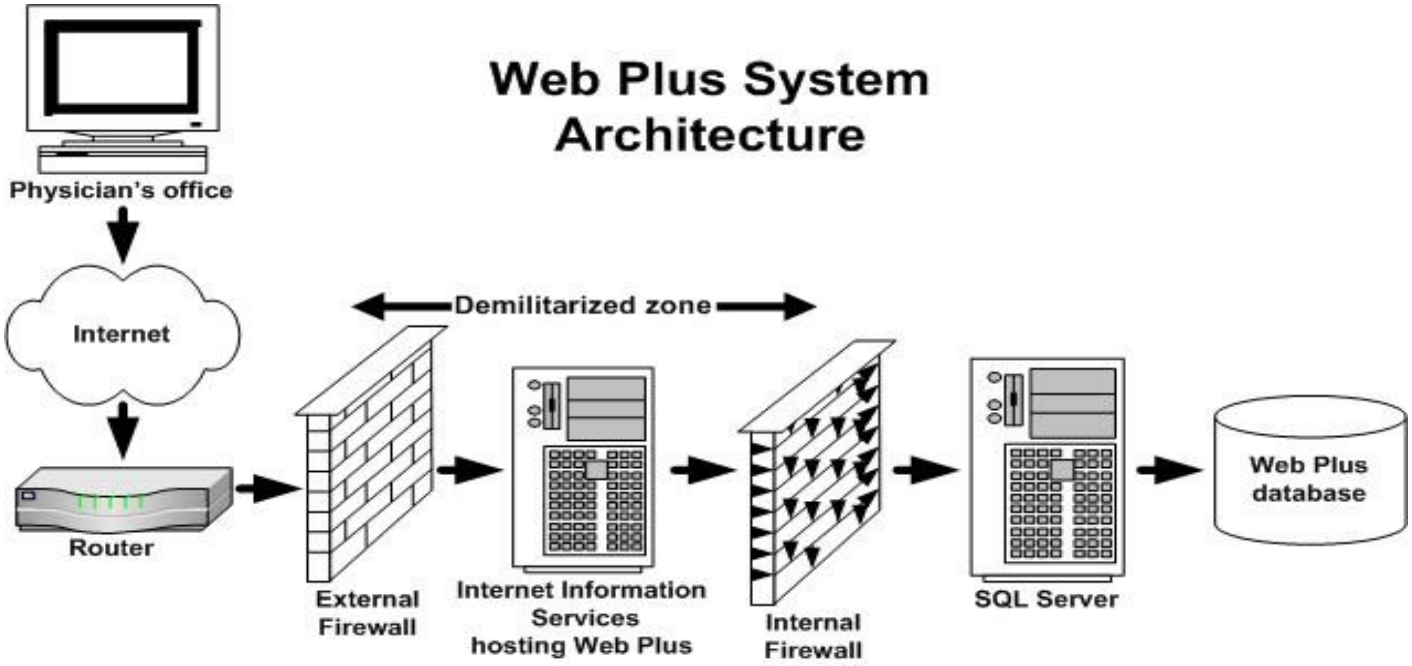

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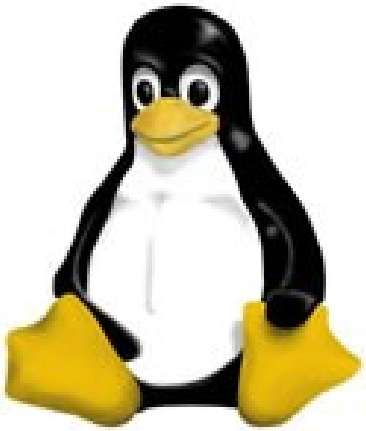

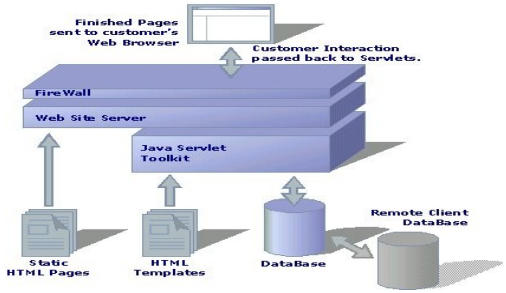

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- La base de datos fue diseñada inicialmente, para dar acceso a citas (con resúmenes) de artículos en revistas biomédicas

- Después se le añadieron ligas para dar acceso a todo el texto de los artículos de las páginas Web de las revistas participantes

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Kinetics of decolourisation and biotransformation of direct black 38 by C. hominis and P. stutzeri.
Appl Microbiol Biotechnol. 2007 Feb 21; [Epub ahead of print]
PMID: 17318544 [PubMed - as supplied by publisher]

2: Berges L, Rodriguez-Villalobos H, Deplano A, Struelens MJ.
Prospective evaluation of imipenem/EDTA combined disc and Etest for detection of metallo-{beta}-lactamase-producing Pseudomo
aeruginosa.
J Antimicrob Chemother. 2007 Feb 22; [Epub ahead of print] No abstract available.
PMID: 17317694 [PubMed - as supplied by publisher]

3: Furrer P, Panke S, Zinn M.
Efficient recovery of low endotoxin medium-chain-length poly([R]-3-hydroxyalkanoate) from bacterial biomass.
J Microbiol Methods. 2007 Jan 19; [Epub ahead of print]
PMID: 17316850 [PubMed - as supplied by publisher]

4: Munoz R, Diaz LF, Bordel S, Villaverde S.
Inhibitory effects of catechol accumulation on benzene biodegradation in Pseudomonas putida F1 cultures.
Chemosphere. 2007 Feb 20; [Epub ahead of print]
PMID: 17316748 [PubMed - as supplied by publisher]

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6: Deryke CA, Joseph LK, David PN. Links

Pharmacodynamic Target Attainment of Six beta-Lactams and Two Fluoroquinolones Against Pseudomonas aeruginosa, Acinetobacter baumannii, Escherichia coli, and Klebsiella Species Collected from United States Intensive Care Units in 2004.
Pharmacotherapy. 2007 Mar;27(3):333-42.
PMID: 17316145 [PubMed - in process]

7: Samples CR, Raushel FM, Derose VJ. Links

Activation of the Binuclear Metal Center through Formation of Phosphotriesterase-Inhibitor Complexes.
Biochemistry. 2007 Feb 22; [Epub ahead of print]
PMID: 17315951 [PubMed - as supplied by publisher]

1 2 3

8: Oh J, Kim JG, Jeon E, Yoo CH, Moon JS, Rhee S, Hwang I. Related Articles, Links

Amyloidogenesis of type III-dependent harpins from plant-pathogenic bacteria.
J Biol Chem. 2007 Feb 21; [Epub ahead of print]
PMID: 17314101 [PubMed - as supplied by publisher]

9: Rajal VB, McSwain BS, Thompson DE, Leutenegger CM, Kildare BJ, Wuertz S. Related Articles, Links

Validation of hollow fiber ultrafiltration and real-time PCR using bacteriophage PP7 as surrogate for the quantification of viruses from water samples.
Water Res. 2007 Feb 19; [Epub ahead of print]
PMID: 17313967 [PubMed - as supplied by publisher]

10: Wang CY, Jerng JS, Cheng KY, Lee LN, Yu CJ, Hsueh PR, Yang PC. Related Articles, Links

Pandrug-resistant Pseudomonas aeruginosa among hospitalised patients: clinical features, risk-factors and outcomes.
Clin Microbiol Infect. 2007 Feb;13(2):217. No abstract available.
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Amyloidogenesis of type III-dependent harpins from plant-pathogenic bacteria.

1

Oh J, Kim JG, Jeon E, Yoo CH, Moon JS, Rhee S, Hwang I.

Department of Agricultural Biotechnology, Seoul National University, Seoul 151-921.

Harpins are heat-stable, glycine-rich, type III secreted proteins produced by plant pathogenic bacteria, which cause a hypersensitive response (HR) when infiltrated into the intercellular space of tobacco leaves; however, the biochemical mechanisms by which harpins cause plant cell death remain unclear. In this study, we determined the biochemical characteristics of HpaG, the first harpin identified from a Xanthomonas species, under plant apoplast-like conditions using electron microscopy and circular dichroism spectroscopy. We found that His6-HpaG formed biologically active spherical oligomers, protofibrils, and ss-sheet-rich fibrils, whereas the null HR mutant His6-HpaG(L50P) did not. Biochemical analysis and HR assay of various forms of HpaG demonstrated that the transition from an a helix to ss-sheet-rich fibrils is important for the protein's biological activity. The fibrillar form of His6-HpaG is an amyloid protein based on positive staining with Congo red to produce green birefringence under polarized light, increased protease resistance, and ss-sheet fibril structure. Other harpins, such as HrpN from Erwinia amylovora and HrpZ from Pseudomonas syringae pv. syringae, also formed curvilinear protofibrils or fibrils under plant apoplast-like conditions, suggesting that amyloidogenesis is a common feature of harpins. Missense and deletion mutagenesis of HpaG indicated that the rate of HpaG fibril formation is modulated by a motif present in the C terminus. The plant cytotoxicity of HpaG is unique among the amyloid-forming proteins that occur in several microorganisms. Structural and morphological analogies between HpaG and disease-related amyloidogenic proteins, such as Ass protein, suggest possible common biochemical characteristics in the induction of plant and animal cell death.

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The Pseudomonas syringae pv. tomato HrpW protein has domains similar to harpins and pectate lyases and can elicit the plant hypersensitive response and bind to pectate.
J Bacteriol. 1998 Oct;180(19):5211-7.
PMID: 9748456 [PubMed - indexed for MEDLINE]

3: Kim JG, Jeon E, Oh J, Moon JS, Hwang I. Related Articles, Links

Mutational analysis of Xanthomonas harpin HpaG identifies a key functional region that elicits the hypersensitive response in nonhost plants.
J Bacteriol. 2004 Sep;186(18):6239-47.
PMID: 15342594 [PubMed - indexed for MEDLINE]

4: Kim JF, Beer SV. Related Articles, Links

HrpW of Erwinia amylovora, a new harpin that contains a domain homologous to pectate lyases of a distinct class.
J Bacteriol. 1998 Oct;180(19):5203-10.
PMID: 9748455 [PubMed - indexed for MEDLINE]

5: Wang X, Li M, Zhang J, Zhang Y, Zhang G, Wang J. Related Articles, Links

Identification of a key functional region in harpins from Xanthomonas that suppresses protein aggregation and mediates harpin expression in E. coli.

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Kim JG, Jeon E, Yoo CH, Moon JS, Rhee S, Hwang I.

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